

Republic of the Philippines Department of Science and Technology PHILIPPINE NUCLEAR RESEARCH INSTITUTE

BID DOCUMENTS

UPGRADING OF ARC BUILDING (CY 2022)

PNRI BIDS AND AWARDS COMMITTEE Commonwealth Avenue, Diliman, Quezon City

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to:

(i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term "related" or "analogous services" shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

 ${\bf SLCC-Single\ Largest\ Completed\ Contract}.$

UN – United Nations.

Section I. Invitation to Bid

Republic of the Philippines
Department of Science and Technology

PHILIPPINE NUCLEAR RESEARCH INSTITUTE

Commonwealth Avenue, Diliman, Quezon City

INVITATION TO BID FOR THE UPGRADING OF ARC BUILDING (CY 2022)

- 1. The Philippine Nuclear Research Institute, through the General Appropriations Act (GAA) for 2022 intends to apply the sum of *Thirteen Million Nine Hundred Sixty Seven Thousand Three Hundred Thirty Pesos and One Cent (₱13,967,330.01)* being the Approved Budget for the Contract (ABC) to payments under the contract for the project *Upgrading of ARC Building (CY 2022)* under *PR No. 21-11-0846*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- The Philippine Nuclear Research Institute now invites bids for the above Procurement Project. Completion of the Works is *one hundred thirty (130) government working days*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- 3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "*pass/fail*" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- 4. Interested bidders may obtain further information from the Philippine Nuclear Research Institute and inspect the Bidding Documents at the address given below.
- 5. A complete set of Bidding Documents may be acquired by interested Bidders from 9:00 am to 5:00 pm on November 19 December 12, 2021, Monday thru Friday, from the Philippine Nuclear Research Institute and upon payment of a non-refundable fee, pursuant to the latest Guidelines issued by the GPPB, in the amount of Twenty Five Thousand Pesos (\$\mathbb{P}\$25,000.00) to the PNRI Cash Section, FAD.
 - It may also be downloaded from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Philippine Nuclear Research Institute, provided that bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.
- 6 The Philippine Nuclear Research Institute will hold a Pre-Bid Conference on *November* 26, 2021, *Friday*, 10:00 AM through videoconferencing/webcasting via Microsoft Teams, which shall be open to prospective bidders.

- 7. Bids must be duly received by the BAC Secretariat through manual submission at the *Motorpool Area, PNRI Compound*, on or before *December 13, 2021, Monday, 10:00 AM*. Late bids shall not be accepted.
- 8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
- 9. Bid opening shall be on *December 13, 2021, 1:30 PM* at the *Auditorium, NART, Building, PNRI Compound, through Video Conferencing*. A link will be provided to Bidders/bidders' representatives who choose to attend the activity upon manual submission of bids on the prescribed time.
- 10. The Philippine Nuclear Research Institute reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
- 11. For further information, please refer to:

PHILIPPINE NUCLEAR RESEARCH INSTITUTE

Hidie S. Gocuyo , Administrative Officer V

Head BAC Secretariat 929-6011 to 19 Loc. 259/Fax. 920-8760 hsgocuyo@pnri.dost.gov.ph

12 You may visit the following websites for downloading of Bidding Documents:

http://www.philgeps.gov.ph http://www.pnri.dost.gov.ph

Vallerie Ann I. Samson, Ph.D.
Deputy Director and Chairperson,
PNRI-Bids and Awards Committee

Section II. Instructions to Bidders

1. Scope of Bid

The Philippine Nuclear Research Institute invites Bids for the project *Upgrading of ARC Building (CY 2022)*.

The Procurement Project (referred to herein as "Project") is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

- 21. The GOP through the source of funding as indicated below for 2022 in the amount of Thirteen Million Nine Hundred Sixty Seven Thousand Three Hundred Thirty Pesos and One Cent (\$\mathbb{P}13,967,330.01)\$
- 22. The source of funding is: NGA, the National Expenditures Program

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions;

(c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 51. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA's CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 53. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 54. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that Subcontracting is not allowed.

- 7.1. [If Procuring Entity has determined that subcontracting is allowed during the bidding, state:] The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- The Supplier may identify its subcontractor during the contract implementation stage, state:] The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address {[insert if applicable] and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 103. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 104 A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

105. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- Payment of the contract price shall be made in Philippine Pesos.

15. Bid Security

15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

The Bid and bid security shall be valid for *one hundred twenty (120) days*. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

181. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "passed" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.
- If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.

In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet Bid Data Sheet

ITB Clause		
5.2	The Bidder must have completed, within the period specified in the Invitation to Bid, a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC. However, contractors under Small A and Small B categories without similar experience on the contract is allowed to bid since the ABC is not more than the Allowable Range of Contract Cost (ARCC) of their registration. Further, bidders whose offices are not based in Metro Manila should have completed projects within Metro Manila similar to the project to bid, so that the Procuring Entity can verify the quality of workmanship. For this purpose, contracts similar to the Project refer to General Building	
7.1	Subcontracting is not allowed.	
10.3	The Bidder must be a PCAB licensed contractor with <i>License Classification on General Building</i> at least <i>Category C or D</i> . The Bidder must also be a registered contractor for government projects with Size Range at least <i>Small B</i> for <i>Building and Industrial Plant</i> .	
10.4	The minimum work experience requirements of key personnel to be assigned for the project shall be provided in the Key Personnel (Format of Bio-Data) form.	
10.5	The minimum major equipment requirements for the project shall be provided in the List of Equipment, Owned or Leased and/or under Purchase Agreements, Pledged to the Proposed Contract form.	
12	No further instructions.	
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:	
	a The amount of not less than P279.346.60 if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;	
	b. The amount of not less than *P698,366.50 if bid security is in Surety Bond.	
	If a surety bond will be used, the following are the requirements:	
	 a. Must have the original receipt; b. Must be callable on demand; c. Certified by the Insurance Commission that the surety company is authorized to issue such security. 	

15.2	The Bid and bid security shall be valid for one hundred twenty (120) days
19.2	Partial bids are not allowed.
20	No further instructions.
21	Additional contract documents relevant to the Project to be submitted by the successful bidder: (1) Construction Schedule and S-curve (2) Manpower Schedule (3) Construction Methods (4) Equipment Utilization Schedule (5) Construction Safety and Health Program approved by the DOLE (6) PERT/CPM and (7) All Risk Insurance

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

2. Sectional Completion of Works

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Possession of Site

- 3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certifysuch sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
- If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the **SCC** supplemented by any information obtained by the Contractor.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the **SCC**, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Contractor is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the SCC, the Dayworks rates in the Contractor's Bid shall be used for small additional amounts of work only when the Procuring Entity's Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

- 11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the SCC.
- The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the **SCC**, subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

- **15.1.** If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals as specified in the **SCC.**
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the **SCC** from payments due to the Contractor.

Section V. Special Conditions of Contract Special Conditions of Contract

GCC Clause		
2	The Intended Completion Date is August 2022.	
3.1	No further instructions.	
4	The Contractor shall employ the following Key Personnel:	
	(a) Registered Civil Engineer (b) Registered Electrical Engineer (c) Foreman (with 5 years supervisory experience) (d) Skilled Workers (Carpenter Mason, Electrician, Plumber and Welder with at least 5 yrs. experience)	
	Note: Foreman and workers are required to be full time/present on site throughout the duration of the contract.	
	The Contractor shall provide appropriate PPE to workers and to all other persons who are either authorized or allowed to be at the site.	
5	Within seven (7) calendar days from receipt of the Notice of Award, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR or a Performance Securing Declaration.	
6	A Site Inspection is required to prospective bidders. A Certificate of Site Inspection shall be issued by PNRI and will form part of Eligibility Requirements.	
7.2	Warranty:	
	The warranty shall be based on prescribed warranty provisions of the 2016 Revised IRR of RA 9184.	
	 From the time project construction commenced up to final acceptance, the contractor shall assume full responsibility for the following: a) any damage or destruction of the works except those occasioned by force majeure; and b) safety, protection, security, and convenience of his personnel, third parties, and the public at large, as well as the works, equipment, installation and the like to be affected by his construction work. 	

	2. One (1) year from project completion up to final acceptance or the defects liability period.
	The contractor shall undertake the repair works, at his own expense, of any damage to the infrastructure on account of the use of materials of inferior quality, within ninety (90) days from the time the HoPE has issued an order to undertake repair. In case of failure or refusal to comply with this mandate, the Procuring Entity shall undertake such repair works and shall be entitled to full reimbursement of expenses incurred therein upon demand.
	The warranty against Structural Defects and Failures shall be covered for Five (5) years from final acceptance, except those occasioned by force majeure.
8	Once the contract duration expires, including any time extension duly granted, and the contractor refuses or fails to satisfactorily complete the work, the Procuring Entity shall impose upon the contractor in default liquidated damages. Liquidated damage is an amount equal to at least one tenth (1/10) of one (1) percent of the cost of the unperformed portion of the works for every day of delay.
10	Day works are applicable at the rate shown in the Contractor's original bid.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <i>five</i> (5) <i>days</i> of delivery of the Notice of Award.
11.2	The period between Program of Work updates should not be longer than ten (10) days
	The amount to be withheld for late submission of an updated Program of Work is <i>Twenty Thousand Pesos</i> (\$\mathbb{P}20,000.00).
13	The amount of the advance payment shall not exceed 15% of the total contract price. Payment shall be made upon the completion and approval of the Final Drawings, Specifications and other relevant documents.
14	The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity's Representative/Project Engineer. Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The Contractor shall submit construction plans, showing the detailed drawing plans design prior to construction commencement. The Contractor shall submit as-built drawings after project completion.
15.2	The Final Payment shall be withheld for failing to produce "as built" drawings.

Section VI. Specifications

I. SCOPE OF WORKS

A. GENERAL REQUIREMENTS

- 1. Mobilization & demobilization (Manpower, Tools, Materials and equipment.
- 2. Bonds/insurance
- 3. Temporary facilities
- 4. As-built plan
- 5. Project Billboard

B. UPGRADING OF GENERAL ARC BUILDING.

CIVIL AND ARCHITECTURAL WORKS

GROUND FLOOR

- 1. Repair of Public Comfort Room Plumbing sewerline pipes (He and She) C.R (A) and C.R (B).
- 2. Repair of damaged ceiling including painting.
- 3. Repair/Replacement of old damaged comfort room fixtures and accessories.
- 4. Repair/Replacement of damaged hallway and lobbies acoustic boards.
- 5. Supply and installation of five (5) units Fire hose cabinets w/ complete accessories including piping and testing.
- 6. Repair and replacement of existing fire hose cabinet water control brass gate valve.
- 7. Repair/Replacement of damaged granite tiles at center lobby.
- 8. Demolition, cutting, removal and hauling of Reactor Bldg.'s HVAC including rental of tools, equipment, truck, manpower and supervision.

SECOND FLOOR

- 1. Repair of leaking roof drainage/gutter at BMRS office and laboratories.
- 2. Repair of comfort room plumbing sewer line pipes (He and she C.R).
- 3. Repair of damage ceiling including painting.
- 4. Repair/Replacement of public comfort room fixtures and accessories and de-clogging.
- 5. Repair/Replacement of hallway damaged acoustic board.

C. UPGRADING OF APRS OFFICE, CONFERENCE ROOM AND SUPERVISOR ROOM

GROUND FLOOR

- 1. Repainting of concrete walls including columns (3 coats latex paint).
- 2. Replacement of damage acoustic ceiling board.
- 3. Replacement of damage granite floor tiles.
- 4. Elevate window type aircon opening.

APRS LABORATORIES

- 1. Repainting of concrete walls and ceiling including columns and beams (3 coats latex paint).
- 2. Supply and installation of self-leveling epoxy floor system.
- 3. Provide new emergency shower drain.

BASEMENT (NEUTRON AND GAMMA LABORATORY)

- 1. Removal and relocation of heavy equipment from neutron basement laboratory to PNRI Compound. (Specific site location will be clarified through a Bid Bulletin)
- 2. Repair of aluminum glass door and locks.
- 3. Supply and installation of granite floor tiles.
- 4. Repainting of concrete walls and ceiling including columns and beams (3 coats latex paint).
- 5. Supply and installation of new laboratory tables (2 sets). See plan (LAB CT).
- 6. Repair of concrete walls.
- 7. Supply and installation of built-in shelves/cabinets (2 sets).
- 8. Repair of aluminum glass door and locks.
- 9. Supply and installation of wooden open shelves (2 sets).
- 10. Supply and installation of floor tiles.
- 11. Repainting of concrete walls and ceiling including columns and beams (3 coats latex paint).
- 12. Supply and installation of new laboratory tables with stainless steel sink (LAB-CTS) 1 set.
- 13. Supply and installation of new laboratory tables (LAB-CT) 1 set.

COMFORT ROOMS

1. Provision of shower area and shower fixture (Male and Female) Including new sewerline p-trap and waterline.

D. UPGRADING OF BMRS

- 1. Repair of ceiling at office & Mol. Bio Lab
- 2. Provision of emergency shower area at the Mol. Bio Lab and counter sink with new waterline & sewerline provision.

E. UPGRADING OF CRS

RENOVATION OF CRS PLATEN PRESS ROOM IN RADIOECOLOGY BLDG.

1. Rehabilitation of existing concrete table with sink and install owner supply new stainless counter sink including waterline & sewerline and restoration works and disposal of debris.

RENOVATION OF RBA LABORATORY 1

- 2. Installation of roof canopy on west side windows of RBA Lab. 1 (facing Radioecology Bldg.)
- 3. $(0.60 \text{ x} (\pm) 2.00)$ Half-truss steel canopy with prepainted rib-type roofing with flushing & 1/2" thick fixem board sidings.
- 4. (0.60×1.00) Half-truss steel canopy with prepainted rib-type roofing with flushing & 1/2" thick fixem board sidings.

5. Installation of PVC drain pipes on existing window type Aircon including chipping works and restoration.

RENOVATION OF CHEMISTRY BASEMENT ROOM

- 6. Repair of acoustic board ceiling including metal t-runners and repair of concrete walls.
- 7. Supply and repair of floor tiles.

RENOVATION OF RBA LABORATORY 2

- 8. Supply/repair of ficem board ceiling and repainting of whole ceiling.
- 9. Repair of Sink drain/sewage line, provide new PVC pipes & fittings & testing.

RENOVATION OF CRS (Chemical Storage Room)

10. Supply and Installation of partition with sliding door.

RENOVATION/UPGRADING OF HPLC ROOM – RADIATION PROCESSING LABORATORY

- 11. Supply of vibration proof table (see plan).
- 12. Supply and installation of roll-up window blinds (NYLON) w/ complete accessories.
- 13. Installation of canopy on windows of Central Laboratory.

RENOVATION OF FTIR ROOM

- 14. Filling an opening of window type ACU, provide new CHB Wall w/ plastering on both face & painting.
- 15. Installation of waterline w/ floor drain on existing shower and laboratory sink at Soil/Sediment digestion Lab.
- 16. Rectification of leaking ceiling roof near the entrance of Central Lab.
- 17. Replacement of malfunctioning glass door lockset.

F. UPGRADING OF ENVIRONMENTAL RADIOACTIVITY MONITORING (ENVILAB)

- 1. Application of new self-leveling epoxy floor system.
- 2. Fabrication and installation of laboratory tables and cabinets.
- 3. Supply and installation of two (2) emergency shower and eyewash stations.
- 4. Supply and installation of 3" diameter PVC sewerline pipes and fittings for emergency shower with eyewash.
- 5. Supply and installation of ½" diameter PPR pipes and fittings with gate valve control as per plan.
- 6. Supply and installment of Acrylic Radiation Warning Sign.

UPGRADING OF HPRS (Pantry)

- 7. Removal of ceiling type aircon.
- 8. Repair/replacement of acoustic board.
- 9. Upgrading of concrete table w/ kitchen sink.
- 10. Provision of reinforced concrete table with stainless steel sink tiled finish (Table #1).
- 11. Provision of reinforced concrete table with tiled finish (Table #2).
- 12. Provision of reinforced concrete table with stainless steel sink tiled finish (Table #3).
- 13. Provision of reinforced concrete table tiled finish (Table #4 and #5).

G. REPAIR OF THREE (3) NATAS LABORATORIES IN ARC BUILDING (BASEMENT)

- 1. Supply & installation of granite floor tiles including upgrading/repair of drainage system.
- 2. Upgrading of existing laboratory table.
- 3. Removal of existing equipment.
- 4. Repainting of walls & ceiling (3 coats) including concrete columns & beams.
- 5. Installation of cable tray enclosure.
- 6. Repair/upgrading of existing center table.
- 7. Fabrication and installation of wooden hanging cabinet.
- 8. Installation of concrete partition wall with aluminum glass door and jamb.

H. UPGRADING OF NSSSL (GROUND FLOOR)

COMFORT ROOM

- 1. Supply and repainting of ceiling.
- 2. Supply and replacement of loose granite floor and wall tiles.
- 3. Supply and repair of water drainage and fixtures in shower area.
- 4. Supply and repair of plumbing piping of C.R.

MAIN TRAINING ROOM

- 5. Supply and replacement of damaged acoustic board.
- 6. Supply, remove and replace of glass window to concrete wall w/ plastered tiled finish inside and painted outside.
- 7. Supply and replacement of loose floor tiles.
- 8. Supply and installation of cabinets with tiled table top finish (work station) w/ hanging cabinets along glass window side.
- 9. Concrete table tiles finish with cabinets.
- 10. Supply and installation of kitchen sink with cabinets and hanging cabinets.
- 11. Kitchen sink w/ accordion door.
- 12. Supply and installation of Sewerline for kitchen sink and ACU.
- 13. Installation of steel door w/ viewing glass @ Main Training Room & Instrumentation Room.

I. UPGRADING OF ITS

CIVIL WORKS

- 1. Removal of existing aluminum panel walls.
- 2. Supply and installation of sandwich panel doors (2.1 x 0.9m) w/ accessories.
- 3. Replacement of 5 cm sandwich panel wall.
- 4. Installation of coving.
- 5. Concrete wall breaking for service bay door and pass box at corridor including rental of breaker.

J. REHABILITATION OF ISOTOPE LABORATORY AND ADJACENT STRUCTURES (NROS)

CIVIL WORKS

- 1. Refurbishment of Isotope Laboratory (Reactor Building, ARC Basement, East Wing)
 - 1.1 Installation of stainless steel sink single bowl, 25" x 20" x 10" deep
 - 1.2 Installation of stainless steel goose neck type faucet (Delta brand or equivalent)
 - 1.3 Installation of water and drain lines (1" Ø PPR PN10 pipe and fittings), stainless steel (gate valve, p-trap, and fittings assembly)
 - 1.4 Installation of lavatory work bench top, phenolic resin, 3.6 m x 0.64 m
 - 1.5 Fabrication of table and work bench cabinets, 3.6 m x 0.64 m x 0.850 m using 3/4" marine plywood and 3" x 3" S4S kiln dry lumber
- 2. Renovation of two (2) toilets (Reactor Building, ARC Basement, East Wing)
 - 2.1 Remove floor, wall, and cubicles tiles and clean floors with disinfecting bleach
 - 2.2 Clean floors and walls with disinfecting bleach
 - 2.3 Demolished wood cubicles at female toilet
 - 2.4 Apply masonry putty on floor (if necessary)
 - 2.5 Apply masonry putty and install tiles on floors and walls, 25 cm x 50 cm
 - 2.6 Installation of water lines (1" Ø PPR PN10 pipe and fittings), stainless steel (floor drains, threaded faucets, gate valve)
 - 2.7 Installation of tiles on three (3) cubicles at female toilet and additional height for male toilet, 10 cm x 10 cm
 - 2.8 Installation of 2 water closets, 2 lavatories, 2 sets of lavatory faucets, 2 mirrors, soap holder, towel holder, 3 sets 2-hook hangers, 2 paper holders, floor drains, water heater with shower head, 2 urinals(for male toilet), shower enclosure door (frosted glass tint) 1m X 2.03m height, pipe fittings, bathroom faucet, 1 liter liquid soap dispenser and other toilet fixtures (prefers American standard brand or equivalent)
 - 2.9 Construction of CHB walls for three(3) cubicles for the female toilet and additional height of 1 CHB for the male toilet, mixture of 1:2.5:5, spacing: 0.40m vertical reinforcement and 2 layers horizontal reinforcement (cement, 40 cm X 20 cm X 4" thick CHB, sand, gravel, rebars)
- 3. Renovation of change room (Reactor Building, ARC Basement, East Wing)
 - 3.1 Removal and sanding of tiles
 - 3.2 Installation of emergency eyewash and safety shower equipment
 - 3.3 Fabrication and installation of cabinets, 1.2 m X 2.4 m X 3/4" marine plywood, concealed hinges, stainless steel handle, round wood knob,2-hook wall hanger, lumber(as per drawing)
 - 3.4 Installation of water lines (1" Ø PPR type pipe) and floor drain
 - 3.5 Removal and installation of bathroom tiles, 25 cm x 50 cm and 4" stainless steel floor drain

- 3.6 Painting works wooden cabinets (Change Room and Isotope Laboratory)
 - 3.6.1 Apply 1 coating of primer paint
 - 3.6.2 Apply 2 top coats of finished paint
- 3.7 Painting works concrete platform (Isotope Laboratory), Change Room, 2 toilets (cubicles), Office Room
 - 3.7.1 Remove loose paint i.e. peeling, chalking
 - 3.7.2 Sand surface and apply putty (if necessary)
 - 3.7.3 Apply 1 coat of primer paint
 - 3.7.4 Apply 2 coats of finished paint
- 4. Renovation of storage room into office room (Reactor Building, ARC Ground Floor)
 - 4.1 Installation of floor tiles, 0.60 m x 0.60 m
 - 4.2 Installation of analok window (fixed) and frame, 0.60 m x 0.60 m x ½" thick clear glass
 - 4.3 Installation of analok door and frame, 2.1 m x 0.95 m x ½" thick clear glass
 - 4.4 Supply of office furnitures (tables, chairs and glass door steel file cabinet) as shown in the pictures and specifications
- 5. Others (rental of tools and equipment, consumables and demobilization)

SCOPE OF WORKS (ELECTRICAL)

General ARC Building

- 1. Replacement of existing ground floor hallway pinlight fixtures as indicated in the electrical layout.
- 2. Replacement of existing second floor hallway pinlight fixtures as indicated in the electrical layout.
- 3. ARC Building Fire Alarm System: Conduct tracing, troubleshooting, on all fire alarm distribution circuits of basement, ground, and second floor, supply and installation of additional smoke detectors with line circuits at the ground floor and basement as indicated in the electrical layout, replacement of smoke detectors at the basement and at the ground floor.

Applied Physics Research Section (APRS)

- 4. Embedded of convenience and aircon outlets conduit in the concrete wall, and relocation of aircon outlets as indicated in the electrical layout (ground floor).
- 5. Repair and re-installation of convenience and aircon outlets conduit pipes as indicated in the electrical layout. (ground floor).
- 6. Replacement of existing Eagle brand convenience outlets to Panasonic WEG wide series brand as indicated in the electrical layout. Work also includes the termination of these existing line circuits to Panelboard PE. (Ground floor).

- 7. Supply and installation of telephone outlets (APRS Office, ground floor, Gamma and Neutron laboratory, basement).
- 8. Conversion of the existing aircon outlet to fume hood supply line as indicated in the electrical layout. (Ground floor).
- 9. Supply and installation of two (2) unit enclosed circuit breakers (ECB) with supply line for aircon, (basement), and one (1) unit ECB for equipment at the ground floor, as indicated in the electrical layout.
- 10. Tracing of electrical distribution circuits (Ground floor and Basement).

Nuclear Analytical Techniques Applications Section (NATAS)

- 11. Supply and installation of Panelboard DPA-3 and feederlines located at the right-wing electrical room, basement as indicated in the electrical layout.
- 12. Supply and installations of distribution circuits which include convenience outlets, enclosed circuit breakers for aircons, conduit pipe, wires, boxes and other electrical. (Basement)
- 13. Supply and installation of floor mounted convenience outlets and aircon outlet as indicated in the electrical layout.
- 14. Tracing of electrical distribution circuits (Biomed Office and laboratory), Second floor.

Chemistry Research Section (CRS)

- 15. Provision of Step-up transformer (1x400V/3P), convenience outlets for the Twin Screw Extruder equipment at the Platen Press Room.
- 16. Supply and installation of emergency lights at the RBA-1 Lab.
- 17. Supply and installation of timer controller for 4 units ACUs, RBA 1 Lab.
- 18. Supply and installation of LAN circuit from the RBA-1 LCMS/MS Room to Server Room at the ARC main lobby.
- 19. Supply and installation of new Panelboard PCL at the Central Lab and to be connected to the existing ECB 125A, 3P, 240 Main CB, as indicated in the electrical layout.
- 20. Supply and installation of supply line for autoclave and supply line for exhaust fan as indicated in the electrical layout.
- 21. Supply and installation of electrical supply line for 1.5 Hp split type ACU with enclosed circuit breaker at the Grafting Laboratory, Central Lab as indicated in the electrical layout.
- 22. Relocation of existing enclosed circuit breaker, exhaust fan switch, lighting switch and installation of one set Enclosed Circuit Breaker (ECB) with one set weatherproof convenience outlet for ductless fume hood.
- 23. Supply and installation of electrical supply line for 1.0 Hp split type ACU with enclosed circuit breaker at the FTRI Room as indicated in the electrical layout.
- 24. Tracing of electrical distribution circuits (Chemistry Laboratory and Offices).

Nuclear Safeguard and Security Section Lab. (NSSSL)

- 25. Supply and installation of NSSSL Panelboard, feederlines and distribution circuits which include two sets ceiling exhaust fans, conduit pipes, wires, outlets, ECB and other electrical materials required.
- 26. Tracing of electrical distribution circuits (NSSSL).

Nuclear Reactor Operations Section (NROS)

- 27. Supply and installation of Panelboard P100E at the Mechanical Room and all distribution circuits which includes water heaters, convenience outlets, fluorescent fixtures, conduits, wires, enclosed circuit breakers, pullboxes and other required electrical materials as indicated in the electrical layout.
- 28. Re-installation of existing electrical supply line as indicated in the electrical layout. (NROS, Ground floor).

Isotope Techniques Section (ITS)

- 29. Rewiring of existing lighting circuits at the RPK lab, which includes switches and additional weatherproof fluorescent fixture, rigid steel conduit pipes and wires as indicated in the electrical layout.
- 30. Re-installation of existing one (1) unit ceiling mounted exhaust fan and supply and installation of one (1) new unit ceiling exhaust fan with switch as indicated in the electrical layout.
- 31. Supply, installation and relocation of electrical supply for the Martin Christ Freeze Dyer, work includes the dismantling of the existing industrial wall mounting socket and retermination to its new supply 5-wire line as indicated in the electrical layout.
- 32. Supply and installation of new Panelboard PPA4A and additional sets of Bolt-on type circuit breakers with the following specifications: (see layout).
- 33. Supply and installation of electrical supply line for one (1) unit 2HP Split type aircon non inverter type (1) unit window type aircon, non-inverter type as indicated in the electrical layout located in RPK Staff room #1.
- 34. Supply and installation of electrical supply line for the LABCONCO freeze dryer including the installation of existing Twisted Lock Socket as indicated in the electrical layout.
- 35. Supply and installation of distribution circuits at the RPK Staff Room 2, which includes lighting fixtures, convenience outlets and Local Area Network (LAN) outlets as indicated in the electrical layout.
- 36. Tracing of all existing power and lighting circuits including those existing floating/unterminated circuits located at the adjacent electrical room. The traced floating circuits will be terminated to the new PPA4A panelboard inside the electrical room.
- 37. Submission of As-Built Drawings for the tracing of electrical distribution circuits and smoke detectors circuits.

SCOPE OF WORKS (MECHANICAL)

- 1. Supply and installation of one (1) set 6.0 hp air conditioner, split type, floor-mounted, inverter, at APRS Gamma Laboratory, ARC Basement.
- 2. Supply and installation of one (1) set 4.0 hp air conditioner, split type, ceiling-mounted, inverter, at APRS Neutron Laboratory, ARC Basement.
- 3. Removal of existing one (1) set 2.5 hp (~ 2 TR) air conditioner, split type, floor-mounted at APRS Neutron Laboratory, ARC Basement.
- 4. Removal of existing one (1) set air conditioner, split type, ceiling-mounted, at APRS Laboratories, ARC Ground Floor.
- 5. Supply and installation of one (1) set 3.0 hp air conditioner, split type, ceiling-mounted, inverter, at Soil/Sediment Processing Laboratory, ARC Basement.
- 6. Removal of existing one (1) set 3.0 TR (~ 4.0 hp) air conditioner, split type, ceilingmounted, at Soil/Sediment Processing Laboratory, ARC Basement.
- 7. Supply and installation of one (1) set 1.0 hp air conditioner, split type, wall-mounted, inverter, at Chemistry Office/Storage Room, ARC Basement.
- 8. Removal of existing one (1) set 1.0 TR (~ 1.0 hp) air conditioner, split type, wall-mounted, at Chemistry Office/Storage Room, ARC Basement.
- 9. Supply and installation of one (1) set 1.5 hp air conditioner, split type, ceiling-mounted, inverter at Grafting Laboratory, Central Laboratory, ARC Ground Floor.
- 10. Supply and installation of one (1) unit 16" Ø industrial exhaust fan with damper, wallmounted at CRS Platen Press Room, Radioecology Building.
- 11. Supply and installation of one (1) set 1.0 hp air conditioner, split type, wall-mounted, inverter, at Soil/Sediment Digestion Laboratory, ARC Second Floor.
- 12. Removal of existing one (1) unit 1.0 hp air conditioner, window type at FTIR Room, ARC Second Floor.
- 13. Supply and installation of discharge line (3/4" Ø PVC pipe) for exhaust of LCMS equipment at RBA Laboratories.
- 14. Supply and installation of one (1) set 2.0 hp air conditioner, split type, wall-mounted, inverter, at Instrumentation Room, NSSSL, ARC Ground Floor.
- 15. Supply and installation of two (2) sets 100 cfm exhaust fan, ceiling-mounted, 12" grille with 4" Ø duct and vent cover at pantry and CR of NSSSL, ARC Ground Floor.

- 16. Supply and installation of one (1) set 5.0 TR (~ 6.0 hp) air conditioner, split type, floormounted, inverter, at Isotope Laboratory, ARC Basement.
- 17. Supply and installation of one (1) set 1.5 hp air conditioner, split type, wall-mounted, inverter, at NROS Multi-Purpose Room, ARC Ground Floor.
- 18. Dismantling and removal of one (1) lot 6" Ø stainless steel pipe, 6m, at Multi-Purpose Room, ARC Ground Floor.
- 19. Supply and installation of one (1) set 1.0 hp air conditioner, split type, wall-mounted, inverter, at NATAS Laboratory, ARC Basement.
- 20. Supply and installation of one (1) set 3.0 hp air conditioner, split type, wall-mounted, inverter, at NATAS Laboratory, ARC Basement.
- 21. Supply and installation of one (1) set 4.0 hp air conditioner, split type, ceiling-mounted, inverter, at NATAS Laboratory, ARC Basement.
- 22. Supply and installation of one (1) set 150 cfm exhaust fan, ceiling-mounted, 12" grille with 4" Ø duct and vent cover at NATAS Laboratory, ARC Basement.
- 23. Supply and installation of one (1) set 2.0 hp air conditioner, window type, inverter, at Microbiology Room, BMRS, ARC Second Floor.
- 24. Supply and installation of one (1) set 100 cfm exhaust fan, ceiling-mounted, 12" grille with 4" Ø duct and vent cover at BMRS pantry, ARC Second Floor.
- 25. Supply and installation of one (1) set 150 cfm exhaust fan, ceiling-mounted, 12" grille with 4" Ø duct and vent cover at Microbiology Room, BMRS, ARC Second Floor.
- 26. Supply and installation of two (2) sets 2.5 hp air conditioner, split type, wall-mounted, inverter, at Main Laboratory, Environmental Radioactivity Monitoring Laboratory (Envilab).
- 27. Supply and installation of three (3) sets 1.0 hp air conditioner, split type, wall-mounted, inverter, at Radiation Area, Exposure Area and Aquaculture Room, Environmental Radioactivity Monitoring Laboratory (Envilab).
- 28. Supply and installation of one (1) unit 2.0 hp air conditioner, split type, wall-mounted, inverter, at Instrument Room, Environmental Radioactivity Monitoring Laboratory (Envilab).
- 29. Removal of existing one (1) set air conditioner, ceiling mounted at HPRS pantry, ARC Ground Floor.
- 30. Supply and installation of six (6) Fan Filter Units (FFUs), G.I. ducting complete with fittings and supports, stainless steel duct for return, duct insulation and air terminal devices, rearrangement of existing FFUs, replacement of air blower and work surface for vertical clean bench, and HVAC testing and balancing/Cleanroom Performance Testing (CPT) as indicated on the Mechanical Plan of Clean Room, Radiopharmaceutical Kit.

II. MATERIAL SPECIFICATIONS

CIVIL WORKS:

-Site mix Concrete

(1:2:3 mixture) Cement -Portland

Sand -White sand Deformed bar -Grade 33

CHB -6" & 5" thk ordinary

Paint -Latex, Epoxy enamel (Boysen) Water Closet -Oval shape, white (Pozzi) Lavatory -Oval shape, white (Pozzi)

Lavatory w/ stand - White (Pozzi)

-(KASCH MODEL F01096) glossy Lavatory faucet

Urinal -Medium, white (Pozzi) Sink -Stainless steel G.A 18

Acoustic Board -0.60m x 0.60m "Armstrong" Tiles -0.60m x 0.60m Granite (Beige)

And (Marble design)

-10mm thick Gypsum board

-1" x 2" x 0.36mm thick Metal furring

-3" x 4" loose stainless pin hinges Door hinges

Door lockset -yale or equivalent Door closer -yale or equivalent

-analok alum. Sliding & fixed window Windows

w/ 1/4" thick bronze glass

Head bolt and foot bolt

-Stainless steel (yale) or equivalent Granite tiles -0.60m x 0.60m smooth granite

Tubular pipe -2" x 3" x 1.5mm thick Paint (Ceiling) -Latex, semi-gloss (Boysen)

Roof insulation -12mm thk polyethylene foam w/ aluminum foil on both side

Acoustic board -0.60m x 0.60m fine fissured

(Armstrong)

-SIKA or equivalent Self-leveling epoxy flooring system **B.I C-purlins** -2" x 4" x 1.5mm thk

Ficem board -12mm thk (Fascia board)

Ceiling T-runner -1" x 1" white powder coated metal Waterline -PPR Pipes & fittings PN 20

Sewer line -PVC Pipe, Orange (S-1000)

Gate Valve -PPR/Brass

ELECTRICAL WORKS:

Main Circuit Breaker Industrial Type, UL Listed, 25 KAIC MCCB rated

250V/600V, G.E. or better

Distribution Circuit Breaker Bolt-on and Commercial Type, 22 KAIC, G.E. or Better

Enclosed Circuit Breaker Powder Coated Finish, with labeled Ampere Rating

Wires/Cables THHN/THWN, stranded and rated 600V, UL

Listed

Rigid Steel Conduit Schedule 40, Mayer Brand or better

uPVC Pipe Schedule 40, Emerald brand or better

Lighting Switches Conform to the IEC60669-1 standard (16A 250V~)

Duplex Convenience Outlet Socket Outlets conform to the IEC60884-1 standard,

16A, 250 Full rating

Pinlight Fixture Recessed type, 8 inches diameter, aluminum casing

with 12W LED Bulb, 240V, 50/60 Hz

Pinlight Fixture Recessed type, 8 inches diameter, aluminum casing

with 17W LED Bulb, 240V, 50/60 Hz

Fluorescent Fixture T-8 Aluminum Louver Recessed Type, Mirrorized, 1 x

18W, 600x1200x65 mm LED

Fluorescent Fixture Weatherproof, Moisture Proof, IP65, T8, 18W, Single

LED

Fluorescent Fixture Single, LED, 18W T5

Panel board Powder Coated finish with ground terminals

Timer Switch Camsco, Model TB-370

Magnetic Contactor 4KW with NO and NC contacts

Photoelectric smoke detector Input Voltage 12-35VDC, Static current 50µA, Alarm

Current 40-80µA, Conform to NFPA Standard,

Lead Acid Battery 12V, 7Ah, (dimension, 151mm x 65mm x 97.5mm),

YUASA or better

Automatic Emergency Light 2 x 3W High Power SMT LED. Battery: 12v, 9.0Ah,

Sealed Lead AciD

MECHANICAL WORKS

Ducting to FCU connection

Air Conditioning Unit (window type)	1.0 hp, 10,660 kJ/hr cooling capacity, inverter technology, digital with remote control, 230 V / 60 Hz
Air Conditioning Unit (window type)	2.0 hp, 18,750 kJ/hr cooling capacity, inverter technology, digital with remote control, $230\ V\ /\ 60\ Hz$
Air Conditioning Unit (wall-mounted)	1.0 hp, 10,660 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz
Air Conditioning Unit (wall-mounted)	$2.0\ hp,18,\!750\ kJ/hr$ cooling capacity, inverter technology, $230\ V\ /\ 60\ Hz$
Air Conditioning Unit (wall-mounted)	2.5 hp, 21,600 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz
Air Conditioning Unit (ceiling-mounted)	1.5 hp, 12,660 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz
Air Conditioning Unit (ceiling-mounted)	3.0 hp, 29,520 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz
Air Conditioning Unit (ceiling-mounted)	4.0 hp, 36,100 kJ/hr cooling capacity, inverter technology, 230 V / 60 Hz
Air Conditioning Unit (floor-mounted)	$6.0\ hp,51,\!490\ kJ/hr$ cooling capacity, inverter technology, digital with remote control, $230\ V\ /\ 60\ Hz$
Exhaust Fan (ceiling-mounted)	100 cfm, 12" grille with 4" Ø duct and vent cover, 230 V / 60 Hz
Exhaust Fan (ceiling-mounted)	150 cfm, 12" grille with 4" Ø duct and vent cover, 230 V / 60 Hz
Exhaust Fan (wall-mounted)	16" Ø industrial exhaust fan with damper, 1700 cfm, 230 V / 60 Hz
Air distribution ductwork	G.I. Sheet: GA 22, GA 24
Fittings and support	Angle corner with TDC clip
Thermal insulation	25mm polyolefin foam, 25 mm thickness with one side adhesive and one side aluminum foil

Canvass cloth

Fan Filter Unit FFU Frame: Aluminum-Zinc plate

Dimension: 1175 x 575 x 260 mm

Power Supply: 220V / 60 Hz single phase or DC

motor

Blower: 1 set AC blower (400V,4uf)

Noise: 56 dB

Air Velocity: 0.30 m/s - 0.70 m/s

Air Volume: < 1,200 cmh

Filter: H13 mini-pleat HEPA filter Efficiency: 99.99% @ 0.3 um Filter size: 1170 x 570 x 69 mm Filter Media: Micro Glass Fiber

Fan Filter Unit FFU Frame: Aluminum-Zinc plate

Dimension: 575 x 575 x 260 mm

Power Supply: 220V / 60 Hz single phase or DC

motor

Blower: 1 set AC blower (400V, 4uf)

Noise: 56 dB

Air Velocity: 0.30 m/s - 0.70 m/s

Air Volume: < 800 cmh

Filter: H13 mini-pleat HEPA filter Efficiency: 99.99% @ 0.3 um Filter size: 570 x 570 x 69 mm Filter Media: Micro Glass Fiber

Return Wall Grille Stainless Steel: 500 mm x 300 mm

> Stainless Steel: 500 mm x 250 mm Stainless Steel: 450 mm x 450 mm

Return Ceiling Grille Stainless Steel: 150 mm x 150 mm

Fresh Air Louver Galvanized Iron: 300 mm x 150 mm

Galvanized Iron: 400 mm x 200 mm **Drop Louver**

Volume damper Galvanized Iron: 300 mm x 150 mm

> Galvanized Iron: 250 mm x 250 mm Galvanized Iron: 250 mm x 150 mm Galvanized Iron: 200 mm x 150 mm Galvanized Iron: 150 mm x 100 mm

Air flow: 1,200 - 1,300 cu.m./h

Air Blower for Vertical

Rated Voltage: 220VAC 50/60 Hz Clean Bench

Rated Power: 230W

III. CONSTRUCTION REQUIREMENTS

A. ARCHITECTURAL AND CIVIL WORKS

A.1 Painting Works

A.1.1 Preparation

- 1. Full safety gear shall be provided to all painters. Safety harness shall be provided to painters when working on elevated areas.
- 2. Do all preparation and cleaning procedures in accordance with the paint manufacture's instruction and herein specified, for each particular as substrate condition.
- 3. Remove hardware and hardware accessories, plates, surfaces, lighting, fixtures and similar items in places that are not to be painted, or surface-applied protection before surface preparation and painting.
- 4. Adjacent surfaces shall be protected against, stain, or soiling. Each coat of or paint shall be evenly spread without skips, run, sags and clogging and allowed to dry before the next coat is applied.
- 5. Provide sample illumination in areas where painting is in progress to fully light the work being done.

A.1.2 Application

- 1. Provide finish coats that are compatible with existing coats;
- 2. Where different colors meet, provide a clear line natural juncture;
- 3. Apply additional coats when undercoats, stains, or other conditions show through the final coat of paint until paint film is of uniform finish, color, appearance. Give special attention to ensure surfaces, including edges, corners, crevices, welds, and exposed fasteners, receive a dry film equivalent to that of flat surfaces;
- 4. Concrete and masonry surfaces shall be coated with concrete neutralizer and allowed to dry for 1 day before applying any primer painting;
- 5. The work throughout shall be executed in the most thorough manner to the satisfaction of the PNRI. The PNRI has the right to reject any work and materials in its judgement that are not in full conformance with the intention of the plan.

A.2 Welding Works

1. HOT WORKS PERMIT shall be secured prior to all welding works. Full safety gear shall be provided to all welders. Welding machine, cutting tools, grinding tools shall be in good operational condition;

- 2. Electrodes shall be stored in unopened original containers. They shall be stored adequately to prevent moisture loss or moisture absorption and shall be handled in such a manner so as to avoid the damage of coating;
- 3. Electrodes when used shall be free of rust, oil, grease, earth or any other matter which could be harmful for the quality of welding. The electrodes used shall be suitably to the welding process and the base metal and the weld properties shall not be lower than those of base metal;
- 4. The ends to be welded shall be properly cleaned. All paint, oil, grease, rust and oxide in general shall be removed, as well as all earth, sand or any other material which could be harmful to the welding. Ends shall be totally dry when welded;
- 5. Pieces to be welded shall be aligned and spaced in a suitable manner, so as to hold the ends during welding at a distance to ensure full penetration. Root opening shall not be more than as specified. Internal misalignment shall not exceed 1.5 mm;
- 6. At each interruption of welding, and after each run of welding is completed, chipping and slag removal shall be done;

When the welding is complete, but joints shall have a cover pass. It shall be slightly convey and fuse into the surface to the base metal in such a manner as to have a gradual notch free finish a good fusion at the joint edges. It shall not be chipped after completion. Welds shall have a regular appearance and shall be free from defects.

A.3 Concrete Works

- 1. All concrete work shall be done in good workmanship and shall conform with the standard practice;
- 2. Only Portland cement shall be used;
- 3. Sand shall be S-1 or white sand;
- 4. Gravel shall be ³/₄" crushed gravel;
- 5. Concrete proportioning shall be class "A" (1:2:3 1 part cement, 2 parts sand & 3 parts gravel).

A.4 Plumbing Works

- 1. All dimensions such as pipe size are in inches, unless otherwise noted;
- 2. All drainage lines shall maintain a minimum slope of 2 % unless otherwise noted;
- 3. All water lines shall be hydrostatically tested at 1034 kPa (150 psi)
- 4. All pipes shall be embedded on concrete.

A.5 Tiling Works

- 1. Before tile is laid to the floor, the surface shall be tested for levelness or uniformity of slope by flooding it with water.
- 2. Lines of borders and center of walls at the Site work shall be established in both directions to permit the pattern to be laid with minimum cutting of tiles.
- 3. Before grouting of joints, tiles shall have been laid in place for at least 24 hrs.
- 4. Removing of excess grout and adhesive using sponge.

- 5. Cleaning of granite tile surface as thoroughly as possible after completion of grouting.
- 6. Polishing of granite tile surface with soft cloth

A.6 Waterproofing Works

- 1. Membrane Waterproofing shall be liquid thoroseal waterproofing formulated for extra flexibility and resiliency to give lasting waterproofing effect.
- 2. Mixture shall be applied by trowel, roller brush or paint brush and shall remain tight under condition of expansion, contraction and vibration of loads.
- 3. Apply a coat of neutralizer to remove oil, dirt and other contaminants.
- 4. Stir thoroughly the container of membrane waterproofing before use.
- 5. Apply three (3) coats of thoroseal and each coat is allowed a minimum of 24hrs. curing time between each coat.
- 6. To have a bond between the membrane waterproofing and the slab, concrete topping shall be placed as the membrane dries after 48hrs of application
- 7. Prior to topping or placing concrete cover, inspect the membrane for any damage and repair work as required.

B. ELECTRICAL WORKS:

B.1 All works shall be done in accordance with latest Philippine Electrical Code (PEC).

B.2 Wires and Cables

- 1. All wires and cables shall be copper, soft-drawn and annealed, shall be of ninety-eight (98 %) percent conductivity, shall be smooth and true and of a cylindrical form and shall be within one (1 %) percent of the actual size called for.
- 2. Wires and cables for lighting and power systems shall be plastic insulated, stranded, rated at 600 volt and THHN/THWN type and UL Listed.
- 3. Wires and cables for grounding shall be THW and/or BCW.
- 4. Smallest size of wire to be used for lighting and power system shall be 3.5 mm² THHN/THWN.
- 5. Color Coding of Wires:

Line 1 - black

Line 2 - red

Line 3 - blue

Ground - green

B.3 Conduits

- 6. All conduits embedded/non-embedded on concrete shall be rigid steel conduit.
- 7. All exposed conduits shall be painted with gray color epoxy enamel and installed parallel or perpendicular with the building floors, walls and ceilings.

- 8. Hangers and/or clamps spacing shall be as according the latest edition of the PEC and shall be painted with gray color epoxy primer and enamel.
- 9. All rigid steel conduit pipes shall be zinc coated and shall complies with ANSI C80.1-1977 Standard).

B.4 Clamps and Hangers

- 1. Galvanized threaded rod shall be used for exposed conduits. The use of malleable clamps is not allowed.
- 2. Support for RSC pipes shall be fabricated from 1" x 1" angular bars and 10 mm. diameter threaded rod with appropriate U-bolts Supports and hangers shall be painted with epoxy primer and enamel.

C. MECHANICAL WORKS (RADIOPHARMACEUTICAL KIT):

- 1. All works shall be done in accordance with latest Philippine Mechanical Code, Fire Code of the Philippines, SMACNA and ASHRAE standards.
- **2.** Upgrading of the Clean Room, Radiopharmaceutical Kit shall be done by a Clean Room Specialist contractor.

3. DUCTWORK AND INSULATION

- 1. All ductworks and thermal insulations shall comply with the pertinent provisions of SMACNA and ASHRAE standards.
- 2. All insulated mechanical pipes and ducts that are exposed shall be cladded with aluminum sheet including inside the mechanical room.
- 3. All pipes and duct sleeves space between sleeves and duct/pipe should be filled with fire stop materials. Seal duct penetrations through walls.
- 4. Closely coordinate layout of ductwork with other trades.

4. DUCT HANGERS AND SUPPORTS

- 1. Suspend rectangular horizontal galvanized rectangular ductwork 48 inches (1220 mm) or less in largest dimension from construction by 1 inch by 18 gauge (25 mm by 1.3 mm) galvanized strap hangers screwed 8 inches (200 mm) o.c. to ducts.
- 2. Support round flexible ductwork from construction by 2 inches by 26 gauge (50 mm by 0.55 mm) galvanized strap hangers with inside radius of loop hanger equal to outside radius of duct. Locate supports to avoid kinks and sharp bends.

- 3. Hanger spacing not over 96 inches (2440 mm) on center for ducts smaller than 18 inches (457 mm) in largest dimension; 60 inches (1524 mm) o.c. for ducts 18 inches (457 mm) and over.
- 4. Angle bar support and hanger rod as per SMACNA standards.

5. DIFFUSER/REGISTERS/GRILLES

- 1. All registers, grilles, and diffusers shall have manual operated opposed blade volume damper whether or not shown or indicated on plan.
- 2. Diffuser/register/grilles head layout shall be fully coordinated with the actual ceiling/lighting layout adjustments and shall be made accordingly to avoid any interference during installation.

D. REHABILITATION OF ISOTOPE LABORATORY AND ADJACENT STRUCTURES (NROS)

General Requirements:

- 1. The Contractor shall furnish the labor, materials, and equipment for the Rehabilitation of the Isotope laboratory and adjacent structures as specified in the scope of work.
- 2. The Contractor shall supply and install air conditioning units for the Isotope laboratory and Office room.
- 3. The Contractor shall use stainless steel materials for the plumbing and drainage system, cabinet fixture, and faucets, except otherwise specified in the scope of work.
- 4. The Contractor shall use American Standard brand, Cool brand or equivalent for the toilet fixtures.
- 5. The Contractor shall first coordinate with the end-user or any of his representatives prior to any work activity in the Reactor Building, especially accessibility to the electrical power supply and the allowed working area that PNRI assigned.
- 6. The Contractor shall remove and clean all obstructions, wastes, and water residues produced during the duration of the work from time to time, and material shall be transported to a designated area assigned by PNRI.
- 7. The Contractor shall be the sole responsibility for any accident inflicted on their workers during the duration of the project.
- 8. The Contractor shall replace any property owned by PNRI that their workers have damaged during the duration of the project.
- 9. The Contractor shall coordinate with the end-user or his representative from time to time concerning work activities.
- 10. The Contractor shall provide workers with protective gear such as hand gloves, mask, and working shoes for their workers during the dismantling and cleanup activities.
- 11. The PNRI will provide the worker a dosimeter for radiation protection.
- 12. The PNRI will provide the workers with a dosimeter for the radiation protection.

- 13. The Contractor shall coordinate with the End-user, which to be kept in a storeroom and for disposal.
- 14. The Contractor shall remove all protruding pipes or structures in the work area. All openings in the wall shall be covered with concrete and/or cement plaster. Apply one(1) coat of primer paint and two (2) topcoats of pre-desired paint.
- 15. The Contractor shall clean the entire premises with no traces of debris and residues.

IV. DRAWINGS AND SPECIFICATIONS

- 1. In case of discrepancies between the figures and drawings, the matter shall be referred immediately to PNRI, before any adjustment is made by the CONTRACTOR. The decision of PNRI in the adjustment of discrepancies so as to conform to the real intent of the drawings shall govern and shall be followed by the CONTRACTOR.
- 2. Any discrepancies/errors/omission found by PNRI between the drawings and specifications shall be immediately reported to the CONTRACTOR, who will promptly correct such discrepancies at the Contractor's expense.
- 3. After completion of work as described herein, the CONTRACTOR must furnish PNRI at his own expense, one (1) original copy and five (5) blue print plans of 20" x30" "As-built Plan" signed by a professional.
- 4. The CONTRACTOR should submit to PNRI an Electronic Copy of the Drawings in a USB flash drive

V. CONTRACT COMPLETION TIME

1. The contractor must complete the contract work within **ONE HUNDRED THIRTY** (130) Government Working Days from effective date of contract.

VI. REQUEST TO WORK DURING WEEKEND/HOLIDAY

- 1. The CONTRACTOR may request to work during weekends and holidays, however approval is subject to PNRI discretion and the availability of PNRI representative willing to oversee the work on the requested date/s.
- 2. The PNRI reserves the right to reject any or all request and waive any required formality therein.
- 3. Request for work during weekend/holidays must be submitted at least three (3) government working days prior to the target date.
- 4. Request for work during weekend/holidays must be submitted to the PNRI Records Section and a copy of the same bearing the received date and signature from the Records Section must be submitted to GSS.

VII. PRIOR TO MOBILIZATION AND DURING MOBILIZATION

1. Upon Receipt of Notice to Proceed the CONTRACTOR must submit the following documents:

A.) General Requirements

- a.) The CONTRACTOR must submit a list of personnel/worker names (designation/position indicated) with one (1) 1x1 picture (taken at least 1 year prior to submission), name written in the back, together with company I.D. for the issuance of PNRI I.D
- b.) The CONTRACTOR must fill up and submit four (4) copies of PNRI Equipment/Materials brought-in signed by authorized representative and present it to the guard for inspection prior to the unloading of Equipment/Materials on the project site. Equipment and Materials should be on separate forms and required information must be complete, readable and diligently written.

B.) Construction Requirements

- a.) PERT/CPM
- b.) Construction Schedule
- c.) S-Curve
- d.) Manpower Schedule
- e.) Equipment Utilization Schedule
- f.) Construction Methods
- g.) Construction Safety and Health Program (Approved by DOLE)
- h.) All Risk Insurance
- 2. The CONTRACTOR must provide a color-coded uniform for the workers and must be worn at all times together with the issued PNRI I.D while inside the PNRI premises.
- 3. The CONTRACTOR must provide the workers with all the necessary personal protective equipment relative to the workers trade work.
- 4. The CONTRACTOR must post the Project Billboard prior to the start of the project
- 5. The PNRI representative/s may visit the project site from time to time and the CONTRACTOR must at all times have a copy of Drawings/Plans, Bill of Quantities, Construction Schedule, Permits and any other documents pertaining to the project readily available on the project site.
- 6. The CONTRACTOR's supervisor assigned to the project site must be able to answer some if not all the queries of PNRI pertaining to the project.
- 7. All CONTRACTOR workers and supervisor assigned in a specified project are prohibited to roam the PNRI premises and must only stay in the assigned barracks during resting time and in the project site indicated in the PNRI issued I.D. during working time.

- a.) In the event that the same CONTRACTOR won a bid on another project inside the PNRI compound, a different set of workers and supervisor must be assigned on that specific project.
- b.) It is strictly prohibited for workers and supervisor to work on a project different from the indicated project in the issued PNRI I.D.
- c.) If the CONTRACTOR wishes to transfer their assigned personnel from one project to another, the CONTRACTOR must submit an intent letter of transfer and a list of personnel names with one (1) 1x1 picture, name written in the back, together with company I.D., and surrender the previous PNRI I.D. with a different project for the issuance of PNRI I.D with the new assigned project.
- d.) Workers who are transferred to another project shall no longer be allowed to work on their previous assignment. In the event that the workers need to be transferred again, the same transferring procedure shall apply.
- 8. Visitors of the CONTRACTOR workers shall not be allowed to enter the PNRI compound, and shall only be allowed to wait on the gate unless permitted by PNRI.
- 9. The CONTRACTOR is forbidden to sub-contract any part of the scope of work, unless stated in the contract or there is a written approval of PNRI.
- 10. For highly specialized scope of work that require the presence of the Suppliers, Consultants and Affiliates of the CONTRACTOR:
 - a.) The CONTRACTOR shall submit a list of personnel names for Suppliers, Consultants and Affiliates at least three (3) government working days prior to the deployment on the project site.
 - b.) Suppliers, Consultants and Affiliates shall be considered as personnel of the CONTRACTOR and shall submit all the documentary requirements required for mobilization.
 - c.) The submitted I.D of these personnel should be the I.D issued by the CONTRACTOR.
 - d.) Any violation of these personnel on the signed Contract and General Conditions shall be considered violations of the CONTRACTOR.
 - e.) Any incident occurring from the actions and negligence of these personnel that may result to damages on PNRI property and injuries or loss of life to PNRI employees including PNRI Visitors, PNRI Clients and other PNRI Contractor are considered actions of the project CONTRACTOR.
- 11. Cat calling or any form of harassment to PNRI employees, PNRI Visitors, PNRI Clients and other Contractor contracted by PNRI are prohibited.
- 12. Any form of gambling by the CONTRACTOR personnel are prohibited inside the PNRI compound.
- 13. Fighting and personal quarrels between the CONTRACTOR workers that may disturb the peace and may possibly result to fistfight and other physical injuries are prohibited inside the PNRI compound.

- 14. The CONTRACTOR may request for an Advance Payment. The CONTRACTOR must submit a written request together with a Surety Bond and the following supporting documents.
 - a.) Copy of PERT/CPM
 - b.) Copy of Construction Schedule
 - c.) Copy of S-Curve
 - d.) Copy of Manpower Schedule
 - e.) Copy of Equipment Utilization Schedule
 - f.) Copy of Construction Methods
 - g.) Copy of Construction Safety and Health Program (Approved by DOLE)
 - h.) Copy of All Risk Insurance

VIII. DEMOBILIZATION

- 1. The CONTRACTOR must fill up and submit four (4) copies of PNRI Equipment/Materials Taken-out signed by authorized representative with attached copy of Equipment/Materials Brought-in at least three (3) government working days prior to the scheduled hauling of equipment and present it to the guard for inspection at the gate for checking.
- 2. The CONTRACTOR must surrender all the PNRI I.Ds issued to the worker upon completion of the project or upon pulling out of the worker from the project. Any lost or missing I.Ds should be reported to PNRI with attached affidavit of loss.

IX. TEMPORARY FACILITY

- 1. The CONTRACTOR must construct a temporary facility (if stated in the bill of quantities) on the PNRI identified location that will serve as barracks for the workers and as a temporary storage facility for materials, equipment, waste materials and debris.
- 2. The CONTRACTOR must maintain the cleanliness of the Temporary Facility at all times to prevent any untoward incident from happening.

X. REQUEST FOR STAY-IN

- 1. The CONTRACTOR may request for stay-in, however approval is subject to PNRI discretion.
- 2. The CONTRACTOR must start the project as per contract regardless of the status of the approval of the request for stay-in.
- 3. The CONTRACTOR must indicate on the request that PNRI won't be held liable for any incident that may occur on the workers and their possessions while on stay-in.
- 4. The CONTRACTOR must secure the safety and security of its personnel and the supervisor must at all times monitor the workers.

- 5. The PNRI reserves the right to reject any or all request and waive any required formality therein.
- 6. After working hours including weekends and holidays all approved CONTRACTOR's personnel must stay in their temporary facility. Loitering is strictly prohibited.
- 7. Cooking, smoking and drinking liquor shall not be allowed inside the premises.
- 8. The CONTRACTOR's personnel must follow the same curfew guidelines and other policies being implemented on stay-in PNRI employees.
- 9. Water and electricity consumed for the stay-in period must be paid by the CONTRACTOR. The CONTRACTOR must provide a sub-meter to gauge the consumption.

XI. VARIATION ORDERS - CHANGE ORDER/EXTRA WORK ORDER

- 1. Extra Work Order may be issued by the PNRI after the Director, in accordance with the Annex E of the Revised Implementing Rules and Regulations of RA 9184, has been approved the same.
- 2. No Change Order(s) or Extra Work Order(s) shall become effective without official order from the PNRI Director, which has been officially received by the CONTRACTOR.

XII. SAFETY AND SECURITY

- 1. Cigarettes Smoking/Vaping, Illegal Drugs and Alcoholic Beverages are strictly prohibited inside the PNRI premises.
- 2. Bringing of weapons, explosives and sharp and bladed objects that are not going to be used and are not of any use in the project are strictly prohibited.
- 3. Taking any PNRI property (including scrap materials without proper clearance by PNRI) are strictly prohibited, and if found, may result to legal charges.
- 4. Every CONTRACTOR personnel including supervisors, suppliers, consultants and affiliates are required to log in and out on a project specified logbook provided by PNRI. The logbook issued by PNRI is for PNRI consumption and is independent to the CONTRACTOR's own policy in connection with personnel/workers attendance.
 - a.) The date shall be indicated at the top of the page.
 - b.) The logbook should bear the Name, Designation/Position, Signature and time-in and out of the personnel.
 - c.) The handwritings on the logbook must reflect the signature on the PNRI issued I.D
 - d.) The supervisor must sign on the last part of the daily attendance sheet by the end of the workday. If two or more pages are used, all used pages must be signed.
 - e.) The logbook must be submitted to PNRI at the beginning of every week, after the morning time-in, for PNRI inspection, and are then returned to the CONTRACTOR before the end of the day.

- f.) The logbook shall be considered as the property of PNRI and must not be brought out of the compound. The logbook must be available at all times for checking of PNRI representatives.
- g.) The logbook should also include the daily activities that are scheduled for the day.
- 5. The CONTRACTOR must provide a copy of Construction Safety and Health Program (approved by DOLE)
- 6. To avoid any untoward incidents. The CONTRACTOR must assign a Safety Officer for the project. The Safety Officer must have attended trainings/seminars as required by law to be an eligible Safety Officer and the CONTRACTOR shall submit to PNRI the proof of the same to ensure that the assigned personnel is qualified in ensuring the safety of the project site and everyone on the project site and temporary facilities.
- 7. The CONTRACTOR must provide their fire extinguisher. The fire extinguisher must be readily available on project area and temporary facility area.
- 8. Any incident that may result to damages to PNRI properties and all PNRI personnel, partners, visitors, clients and other contractor contracted by PNRI as a result of the project CONTRACTOR negligence during the course of the project would hold the CONTRACTOR legally liable. All damages incurred shall be at the expense of the CONTRACTOR.
- 9. The CONTRACTOR must inform the PNRI in writing with appropriate documentation of the location of any structures which are not part of the project that may be potentially damaged, equipment that may be affected and hazardous areas to be avoided that may endanger the safety and lives of the PNRI employees, partners, visitors, clients and other contractor contracted by PNRI, during implementation of the project. Failure in the part of the CONTRACTOR in informing PNRI in writing would waive the rights of the CONTRACTOR on denying PNRI its claim on damages that may arise. The CONTRACTOR however is not exempted in its liabilities and responsibilities due to negligence if an incident arises that may have been prevented if the CONTRACTOR is diligent in ensuring the timely delivery of work and practiced every safety precaution required by law.

XIII. VIOLATIONS ON THE GENERAL CONDITIONS

- 1. It is assumed that by bidding and winning the bid the CONTRACTOR has read and reviewed all the documents pertaining to the project.
- 2. Any violations on the part of CONTRACTOR including its suppliers and affiliates whether intentional or not on the General Conditions set by PNRI that resulted on incidents or accidents on one party or both parties incurring injuries, disabilities or death, damages to PNRI properties, and/or any delay of the project shall be the sole responsibility of the CONTRACTOR and at the expense of the CONTRACTOR and should not hold the PNRI or its duly authorized representative liable and/or responsible.

3. The PNRI reserves the rights to terminate any or all part of the contract without holding PNRI or its duly authorized representative liable and/or responsible to any or all damages to the CONTRACTOR if the PNRI deemed the CONTRACTOR is negligent on its part.

XIV. WARRANTY

The warranty shall be based on prescribed warranty provisions of the 2016 Revised IRR of RA 9184.

- 1. From the time project construction commenced up to final acceptance, the contractor shall assume full responsibility for the following:
 - a) any damage or destruction of the works except those occasioned by force majeure; and
 - b) safety, protection, security, and convenience of his personnel, third parties, and the public at large, as well as the works, equipment, installation and the like to be affected by his construction work.
- 2. One (1) year from project completion up to final acceptance or the defects liability period.

The contractor shall undertake the repair works, at his own expense, of any damage to the infrastructure on account of the use of materials of inferior quality, within ninety (90) days from the time the HoPE has issued an order to undertake repair. In case of failure or refusal to comply with this mandate, the Procuring Entity shall undertake such repair works and shall be entitled to full reimbursement of expenses incurred therein upon demand.

- 3. The warranty against Structural Defects and Failures shall cover the following periods from final acceptance, except those occasioned by force majeure:
 - a) Permanent Structures: Fifteen (15) years
 Buildings of types 4 and 5 as classified under the National Building Code of the
 Philippines and other structures made of steel, iron, or concrete which comply with
 relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited
 to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels,
 filtration and treatment plants, sewerage systems, power plants, transmission and
 communication towers, railway system, and other similar permanent structures;
 - b) Semi-Permanent Structures: Five (5) years
 Buildings of types 1, 2, and 3 as classified under the National Building Code of the
 Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined
 canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar
 semi-permanent structures; and
 - c) Other Structures: Two (2) years
 Bailey and wooden bridges, shallow wells, spring developments, and other similar structures.

XV. CLEANING OF PREMISES

- 1. Waste materials and debris of any form shall not be dumped on any part of the compound unless otherwise permitted by PNRI.
- 2. The CONTRACTOR, subject to approval of PNRI, may secure any temporary dumping area and shall ensure that no incident or fire would arise on the temporary dumping area.
- 3. Hauling of the debris and waste materials shall be done on a regular basis to avoid overflowing of debris or any untoward incident.
- 4. The CONTRACTOR shall avoid littering on the PNRI premises and shall secure their garbage and segregate it to biodegradable and non-biodegradable.
- 5. Segregated garbage of the CONTRACTOR shall be hauled by the CONTRACTOR.
- 6. The CONTRACTOR shall clean the project area daily before the end of working hours before leaving.
- 7. The CONTRACTOR shall clean and clear the whole premises of all debris and unused materials upon completion of the project.
- 8. Prior to hauling of waste materials and debris the CONTRACTOR must fill up and submit four (4) copies of PNRI Equipment/Materials Taken-out signed by authorized representative with attached colored pictures at least three (3) government working days prior to the scheduled hauling and present it to the guard for inspection at the gate for checking.
- 9. Any unused and excess materials part of the bill of quantities including scrap materials must be surrendered to PNRI.

XVI. FORCE MAJEURE AND PUBLIC HEALTH CONCERNS

- 1. In the event of force majeure and public health concerns the CONTRACTOR should follow the office order/memorandum/guidelines issued by PNRI.
- 2. In the event that such PNRI instruction are not yet issued, the CONTRACTOR must follow the promulgating rules, regulations and guidelines issued by the Philippine government and should closely coordinate with the PNRI for its implementation.

XVII. ADDITIONAL NOTES

1. Any clarifications on any part of the General Conditions must be addressed in writing. The response from PNRI and its subsequent responses, if any, shall be a part of the General Conditions until the completion of the project or if until otherwise revoked.

During COVID-19 pandemic, the CONTRACTOR must follow the minimum public health standard issued by the IATF and DOH. Other guidelines such as DPWH Department Order no. 39 series of 2020 are also in effect. Any updates and guidelines issued by the other government agencies should be closely monitored and the CONTRACTOR should continuously coordinate with PNRI for the updates of the released guidelines and the implementation of these guidelines on the project site.

Section VII. Drawings (on a separate folder)

Section VIII. Bill of Quantities

ITEM	DESCRIPTION	COST
A.	GENERAL REQUIREMENTS	
В.	GENERAL ARC BUILDING	
C.	UPGRADING OF APRS OFFICE,	
	CONFERENCE ROOM AND	
	SUPERVISOR ROOM	
D.	UPGRADING OF BMRS	
E.	UPGRADING OF CRS	
F.	UPGRADING OF ENVIRONMENTAL	
	RADIOACTIVITY MONITORING	
	(ENVILAB)	
G.	REPAIR OF THREE (3) NATA LABORATORIES	
	IN ARC BUILDING (BASEMENT)	
Н.	UPGRADING OF NSSL	
I.	UPGRADING OF ITS	
J.	UPGRADING OF NROS	
	(ELECTRICAL AND MECHANICAL)	
	TOTAL DIRECT COST:	
	INDIRECT COST:	
	CONTINGENCY	
	OH/SUPERVISION	
	PROFIT	
	TOTAL MARK-UP:	
	VAT (5%):	
	TOTAL INDIRECT COST:	
	TOTAL DIRECT & INDIRECT COST:	
	TOTAL PROJECT COST:	

PROJECT : Upgrading of Arc Bidg. (C.Y 2022)
LOCATION : PINRI Compound, Commonwealth Avenue, Diliman, Quezon City
OWNER : Philippine Nuclear Research Institute (PNRI)
SUBJECT : DETAILED COST ESTIMATE

8				MATERIA	AL COST	LABOR	LABOR COST	ESTIMATED	MAR	MARK-UPS IN PERCENT		TOT	TOTAL MARK-UP	****	TOTAL	TOTAL	TIND
Item No	II EM/DESCRIPTION	- -		UNIT COST	TOTAL COST	UNIT COST	UNIT COST TOTAL COST	DIRECT COST	CONT.	ОСМ	PROFIT	%	VALUE	VAI	INDI. COST	COST	COST
A																	
-	Mobilization/Demobilization (Manpower, Tools, Materials and equipment)	-	to														
2	Bonds/Insurance	-	ot														
က	Temporary Facilities	-	lot														
4	As-Built Plan	-	lot														
5	Project Billboard	1	lot														
	Sub-total																
8																	
	GROUND FLOOR																
1																	
<u> </u>	Removal of existing ceiling board and existing PVC sewer line pipes and fittings	4	set														
1.2	Removal and installation of new assorted sizes PVC sewer line pipes and fittings including de-clogging and testing	4	set														
2	Repair of damaged ceiling including painting																
2.1	1 6mm thk x 4' x 8' Hardiflex board	80	bcs														
2.2	1" x 2" metal furring and hangers	12	bcs														
2.3	Latex paint (3 coats) w/ surface preparation	20	m.ps														
က	Repair/Replacement of old damaged comfort room fixtures and accessories																
3.1	Water closet seat cover (soft closed)	10	bcs														
3.2		ဖ	set														
3.3		9	sod														
3.4	Lavatory faucet (KASCH MODEL F01096) glossy	9	set														
3.5	Assorted G.I fftlings	12	bcs														
3.6	6 Lavatory P-Trap stainless steel	9	sod														
3.7	7 Lavatory flexible hose stainless	9	Sod														
3.8	8 Angle valve single pozzi	9	sod														
3.9	Urinal pozzi white (medium size) w/ complete accessories, push button flush	2	set														
3.10	10 Epoxy sealant	2	gals														
4																	
4.1	0.60m x 0.60m white acoustic board "Armstrong" (Same as existing)	150	bcs														
4.2	1" x 1" pre-painted metal t-runner and wall angle including rivets	9	S														
S	Supply and installation of five (5) units Fire hose cabinets w/ complete accessories including piping and testing																

ages do and obsessed and contain the sears 50ff x 1/270 canvass hose eard fittings and brass gate valve be local		100	
cal		100	
	24 pi	800	
		83	
	Н	Sod Sod	
Steel clamp and hangers 60	09	pes	
Drill bit 6		Sod Sod	
Q.D.E Paint red	2 ge	Sale Sale Sale Sale Sale Sale Sale Sale	
Paint brush 3	3 p	bod so the second secon	
Paint thinner 2		aleg.	
Primer paint 2	2 ge	Nable National Nation	
Dyna expansion bolt 120	120 pr	50.	
Chipping and excavation work	-	lot	
	1 p	lot lot	
Repair and replacement of existing fire hose cabinet water control brass gate valve			
leavy duty	2 pi	808	
Teflon tape big	3 p	Sod Sod	
Repair/Replacement of damaged granite tiles at center lobby			
0.60m x 0.60m Granite tiles beige	16 pi	88	
ABC Tile adhesive	3 ba	Spear	
Ready fix tile adhesive	2 ge	gale and a second a second and a second a second and a second a second and a second a second a second a second a second and a second and a second a second a second and a seco	
Chipping/Removal works		lot lot	
Portland cement		bag	
Removal of tiles and chipping of concrete topping	16 pi	pos de la constanta de la cons	
Demolition, Cutling, Removal and hauling of Reactor Bidg. 1 HVAC including rental of tools, equipment, truck, manpower and supervision		lot	
SECOND FLOOR			
Repair of leaking roof drainage/gutter at BMRS office and laboratories			
Application of injection epoxy sealant on leaking concrete roof slab ceiling and restoration	2000	lot	
Cleaning of roof deck and removal of water inside the waterproofing and repair/replace damage waterproofing membrane		lot	
Repair of comfort room plumbing sewer line pipes (He and she) C.R. (C)			
Removal of existing ceiling board and existing PVC sewer line		198	
Removal and installation of assorted sized PVC sewer line pipes and fittings including de-clogging and testing	-	196	
Repair of damage ceiling including painting			
6mm thk x 4' x 8' Hardiflex board	4 pi	Sod Sod	
1" x 2" metal furring and hangers 6	\rightarrow	pes	
+	25 sq	шъ	
Repair/Replacement of public comfort room fixtures and accessories and de-clogging			
Water closet seat cover (soft closed) 5	5 pi	Pod.	

		-			
4.2	Lavatory sink (pozzi white) Porcelain	n (set		
5.4	Lavatory Taucet (NASCH MODEL FUTUSE) glossy	2	sei		
4.5	Teflon tape	m	bcs		
4.6	Assorted G.I fittings	9	bcs		
4.7	Lavatory P-Trap stainless steel	3	bcs		
4.8	Lavatory flexible hose stainless	ю	bcs		
4.9	Angle valve single pozzi	6	bcs		
4. 10	Urinal pozzi white (medium size) w/ complete accessories, button flush	-	set		
4.11	Epoxy sealant	-	gal		
4.12		10	=		
rc.	Repair/Replacement of hallway damaged acoustic board				
5.1	0.60m x 0.60m white acoustic board "Armstrong" (Same as existing)	75	sod		
5.2	1" x 1" pre-painted metal t-runner and wall angle including rivets	s.	sod		
	Sub-total				
U	UPGRADING OF APRS OFFICE, CONFERENCE ROOM, AND SUPERVISOR ROOM				
	GROUND FLOOR				
1	Repainting of concrete walls including columns (3 coats latex paint)				
1.1	olumns	170	m.ps		
2	Replacement of damage acoustic ceiling board				
2.1	0.60m x 0.60m white acoustic board "Armstrong" (Same as existing)	98	bcs		
2.2	1" x 1" pre-painted t-runner	3	bcs		
က	Replacement of damage granite floor tiles				
3.1	0.60m x 0.60m Granite floor tiles beige	\neg	bcs		
3.2	ABC Tile adhesive	11	bags		
3.3	Ready fix tile adhesive	\neg	gals		
3.4	Chipping and removal works	-	lot		
3.5	Portland cement	_	bags		
3.6	Removal of tiles and chipping of concrete topping	02	bcs		
4	Elevate window type aircon opening				
4.1	Chipping works	-	lot		
42	CHB w/ rebar and painting	-	lot		
	APRS LABORATORIES		+		
-	Repainting of concrete walls and ceiling including columns and beams (3 coats latex paint)				
1.1		138	m.ps		
1.2	Walls and Columns	326	m.ps		
1.3	Repair and repainting of built-in hanging cabinets	2	set		
1.4	Repair and repainting of built-in laboratory tables	က	set		
1.5	Repair and repainting of sink cabinets including tile works	es	set		
1.6	Repair and de-clogging of sink sewer line or provide new sewer line	-	lot		
2	Supply and installation of self-leveling epoxy flooring system				
2.1	lent	112	m:bs		

	2.2	Removal of existing opexy floor paint and new surface preparation	112	sq.m							5 00
Chipping of concurre flace 200 x 10' S-1000 PVC Pec 200 x 10' S-1000 PVC PVC PVC 200 x 10' S-1000 PVC PVC PVC 200 x 10' S-1000 P	m	Provide new emergency shower drain						13			
20x x for 8-x000 PVC Ptg-0 20x x for 8-x000 PVC Ptg-0 20x x for 8-x000 PVC Ptg-0 20x x FVC exhorm (14) Steel handger/dening (14) For x of stainless absel floor drain (1 Coorciets easient/Absler/profuting (1 BASEMENT (NEUTRON AND CAMMA LABORATORY) (1 Repair of attention of heavy equipment from neutron (1 Repair of stainless by post of consorted in Season or and tocks (2 Lockset (mode in jest and revision of greater floor tiles (2 Supply and installation of Granter floor tiles (2 Supply and installation of Granter point (2 ABC Tile adhoesive (2 ABC Tile adhoesive (2 Colling and beams (3 coats late x paint) Walks and Columns (3 coats late x paint) Walks and Columns (3 coats late x paint) Walks and Columns (4 columns and beams (3 coats late x paint) See plant LAB CT) (4 columns and beams (3 coats late x paint) See plant LAB CT) (4 columns and beams (3 coats late x paint) See plant LAB CT) (5 columns and beams (3 coats late x paint)	3.1	Chipping of concrete floor	-	of .							
2VOX FPUC centert 144 PVIC cement 144 Sizeel Intringent/camp 1 Fix of stanless steel froot drain 1 Conceles a sealent/validiporofing 1 BASEMENT (NELTRON AND CAMINA LABORATORY) 1 Respired and relocation of heavy equipment from neutron 1 BASEMENT (NELTRON AND CAMINA LABORATORY) 1 Repair of alluminum glass door and locks 2 Lockest (made in jost in the SIM compand 2 Supply and installation of Cantil floor tiles 2 Repair of alluminum glass door and locks 2 Lockest (made in jost liter Manbe decision*) 1 Repair of alluminum glass door and locks 2 ABC Tile adhresive 5 Repair of concrete walls and celling including 1 Columns and beams (3 coats later paint) 1 Walls and Columns 6 Bupply and installation of new laboratory tables (2 sets) 1 Scoting and beams 3 Scoting and total of the playwood 4 Associated in high grante store legic 4 Scotin x to Store wall	3.2	2'13 x 10' S-1000 PVC Pipe	2	20							
1	3.3	Z'Ø x PVC abow	9	8	33						
1 1 2 2 2 2 2 2 2 2	3.4	PVC cement	1/4	-				2			
For No F stainless steel froot grain 1 Concrete see search/selepticofing 1 Concrete see search/selepticofing 1 BASEMENT (NEUTRON AND CAMMA LABORATORY) 1 BASEMENT (NEUTRON AND CAMMA LABORATORY) 1 Beaver and more requal) 2 Concrete see search/seleption of the sequence of the search of stainless and colors and locks 270 Ready fix its adhesive 2 ABC This adhesive 3 ABC This adhes	3.5	Steel hangenidamp	-	**			ST002				
Concrete seesint-basel-proung	3.6	6" x 6" stainless steel floor drain		9							
Concrete seedure/hodie/profulg BASEMENT (NEUTRON AND CAMMA LABORATORY)	3.7	Portland cement		Ďe.							
Reactive and relocation of heavy equipment from neutron basement aboratory to PMRI Compound basement aboratory to PMRI Compound Basement aboratory to PMRI Compound Capatre (and the basement aboratory) to PMRI Compound Capatre (both the basement aboratory) to PMRI Compound Capatre (both the basement aboratory) to PMRI Compound Capatre (both the basement capatre) (a Score x 0 80m straine) from these floor these capatre (both adverse) (both advers	3.8	Concrete sealant/waterproofing									
Removes and relocation of heavy equipment from neutron 1		BASEMENT (NEUTRON AND GAMMA LABORATORY)									
Repair of sturminum glases door and locks Lockset (made in japan or equal) 2 Supply and installation of grante floor tiles 5 Ready fix lite authersive 5 Porfland carmine from tiles "Mathe design" 5 Porfland carmine 130 Porfland carmine 170 Ready fix lite authersive 97 Bordand carmine 24 Supply and installation of new laboratory tables (2 sets) 24 Supply and installation of new laboratory tables (2 sets) 24 Supply and installation of new laboratory tables (2 sets) 24 Supply and installation of new laboratory tables (2 sets) 24 Associated Fin Nail 4 Associated Fix Nain 10 2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2	1371		4	, p							
Supply and installation of Grante floor tiles	24										
Supply and Installation of Grante floor tiles 270 Ready fix tile authersive 5 ABC Tile adhersive 30 Porfland carment 17 Repadriting of concrete walls and colling including 170 Porfland carment 170 Repadriting of concrete walls and colling including 170 Porfland carment 24 Supply and installation of new laboratory tables (2 sets) 24 Supply and installation of new laboratory tables (2 sets) 24 Supply and installation of new laboratory tables (2 sets) 24 Associated Fin Nail 4 Associated Fin Nail 4 Associated Fin Nail 4 Colling and board 10 2 Set plant (4* neary duty) 36 Concession handle grante foot lose balls 4 ABC The adhesive 4 ABC The adhesive 4 Automotive paint wall of the adhesive 4 Automotive pointer paint 2 Filation 2 Automotive point post of the series paint wall and called the series paint thinner 2 <tr< td=""><td>2.1</td><td>Lockset (made in Japan or equal)</td><td>DI</td><td>16</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>	2.1	Lockset (made in Japan or equal)	DI	16							
Ready fit Life actives/ve 200	m	Supply and installation of Granite floor tiles									
Ready fix the autherisher 20 Portland carment 12 Portland carment 12 Portland carment 13 Portland carment 130 Portland carme	m)	0 60m x 0 60m Granite floor tiles "Marble design"	270	8							
Portland current 12	3.2	Ready Ix life adhesive	w	73							
Portland comment Repairturing of concrete walls and celling including 130	3.3	ABC Tile adhesive		5B.					13		
Repairting of concrete walls and celling including colourns and beams (3 coats latex paint) (130 Walls and Colums (2 colourns and beams (3 coats latex paint) (130 Coling and beams (3 coats latex paint) (2 coling and beams (3 coats latex paint) (2 december 12 coling and beams (3 coats latex paint) (2 december 12 coling and beams (3 coling and be	3.4	Portland cement		sti.							
Walls and Columns 97 Supply and Installation of new laboratory tables (2 sets) 97 Supply and Installation of new laboratory tables (2 sets) 24 Ascented Fin Mail 24 Ascented Fin Mail 40 2"x 4"x 12 S45 KD Eding 40 2"x 4"x 12 S45 KD Tanguille 10 0.50m x 0.50m white grants use 30 Stanless stee handle (4" heavy duty) 36 Conceased inges beavy duty 36 Conceased inges beavy duty 4 Ascorted sand paper 10 4" rancrease and paper 4 Assorted sand paper 2 4" rancrease null 2 Larquer buty 2 Fulable 2 Automotive paint where 2 Paint thinest 2 P	4	Repainting of concrete walls and ceiling including columns and beams 3 costs latex paint)									
Supply and Installation of new laboratory tables (2 sets.) See plan (LAB - CT)	4.4	Walk and Columns	+	E							
Supply and unstallation of new laboratory tables (2 sets) 24 See plan (LAB - CT) 24 Max x x x x x x x x x x x x x x x x x x	4.2	Colina and house	_								
State Part	7	Committee and increases of years to have followed and the following to have a followed and the following the follo									
Ascorded From National Physicol Associated From National Physicol Associated From National Physicol Associated From National Physicol Associated Physicol Associated Physicol	ιn.	See plan (LAB - CT)									
Silewed Fire Nail	5.1	3.4" x 4" x 8" Warine plywood	-	S							
1/2" x 1" x 12" 848 K D Edging	5.2	Assorted Fin Nail		st.			č i		105		
1/2" x 1" x 12 S4S K D Edging	5.3	Silkwel glue	-	25.		v)		0			
2"x 4" x 12 S4S K D Tanguille 10 0.66m x 10 50m white grante pies 30 Schinless site in hands (4" heavy duty) 36 Concessies hinges heavy duty 12 Concessies hinges heavy duty 12 Schort x 0 50m grante hior ties beige 4 ABC The adhesive 8 Purdland cernent 4 Assorted sand paper 10 4"croncries rail 2 Lacquer purly 2 Fulation 4 Automotive pointer paint 2 Lacquer trimner 4 Automotive pointer paint 2 Isaquer frimner 2 Paint while mean 2 Isaquer frimner 2 Paint thinner 2 <t< td=""><td>5.4</td><td>1/2" x 1" x 12" S4S K.D Edging</td><td></td><td>50</td><td></td><td>e e e</td><td></td><td></td><td></td><td></td><td></td></t<>	5.4	1/2" x 1" x 12" S4S K.D Edging		50		e e e					
0.50m x 0.50m white grante sies 30 Stanless steet handle (4* heavy duty) 36 Concessed hinges heavy duty 36 O.50m x 0.50m granter floor ties beige 12 Ready fix its adhealve 4 ABC Its adhealve 6 Portland carried 4 Assorter sand paper 10 4" rancrear and 2 Larquer pully 2 Fulation 2 Automotive to printer paint 2 Lacquer finimer 4 Automotive paint white in a contract of the co	5.5	2" x 4" x 12 S4S K D Tanguile		5	- 77			-0		~	
Stanless step thands (4* heavy duty) 36 Conceased Impes heavy duty 36 Conceased Impes heavy duty 12 Ready fix the adhealive 4 ABC The adhealive 6 ABC The adhealive 10 As contestive 2 Assorter and paper 2 Anomotove top coart paint 2 Full actual thinner 2 Automotove top coart paint 2 Lacquer finimer 2 Paint thinner 4 Assorted paint binsh and roller 2 Paint thinner 2	60	0.60m x 0.60m white granite ties		20		- 0	- 3		33.		
Concessed thrages heavy duty 36 0.5cm x. 0.50m grands floor ties teage 12 Ready fix the adhesive 4 ABC The adhesive 6 ABC The adhesive 10 Assortes and paper 10 4 Assortes and paper 2 1 arrayers pully 2 Full and cerrents 2 Lacquer builty 2 Automotive printer paint 2 Lacquer finance 2 Lacquer finance 4 Automotive paint white 2 Paint thinner 2	5.7	Stainless steel handle (4" heavy duty)	-	25							
0.50m x 0.50m grants floor ties telge 1.2 Ready fit tie achiesive 4 ABC Tie achiesive 6 Purlland cernent 1.0 Assorted sand paper 1.0 4 rancorner nail 2 Larquer pully 2 Fulantion 2 Automotive top tost paint "white" 2 Automotive top tost paint "white" 2 Lacquer thinner 4 Plat vial learnel 2 Quick dry anamel 2 Paint thinner 2 Assorted paint brush and citler 4 Assorted paint brush and citler 4 Assorted paint brush and citler 4	5.8	Concealed Minges heavy duty	-	25							
Ready fit the achiesive 4 ABC The achiesive 8 Portland certment 4 Assorted sand paper 10 4" rancturer nail 2 Language pully 2 Automotive primer paint "whites" 2 Automotive pot cost paint "whites" 2 Lacquar thinner 4 Fist vall enamel 2 Quick dry annel 2 Paint thinner 2 Assorted paint brush and ciller 2 Paint thinner 2 Assorted paint brush and ciller 4 Orawer guide theavy duly 36	00	0.60m x 0.60m grante floor ties beige		8							
ABC The softweekee 8 Portland cerment 4 Assorted sand paper 10 4" Assorted sand paper 10 4" Intercure roal 2 Language pully 2 Automotive primer paint vintee* 4 Automotive top cost paint vintee* 2 Lacquer thinner 2 Lacquer thinner 4 Plat voil earnel 2 Quick dry enanel 2 Paint thinner 2 Paint thinner 2 Assorted paint brush and roller 4 Charact quick thraver quick thraver quick thraver 4	5.1	Ready fix the adhesive	4	ī							
Portland cerement	5.1	ABC Tile adhesive		ső.							
Assorbed sand paper 4" Enricities rail Larques pully Fulatic Automotive primer paint Automotive top cost paint vintes* Lacques thinner Elst vail enamel Cauck dry enamel Assorbed paint bush and roller Assorbed paint bush and roller bush and roller Assorbed paint bush and roller bush and roller bush and roll	5.12	Portland cement		eĎi.							
4" Enneziete nail 2 Larcquer pully 2 Fulante 4 Automotive primer paint 2 Automotive proposition thinner 2 Lacquer thinner 4 Filst vali enamel 2 Quick dry enamel 2 Paint thinner 2 Paint thinner 2 Assorted point brish and roller 4 Assorted point brish and roller 4 Orawer guide heavy duly 36	5,13	Assorted sand paper	10	ll ll	2000	2222	CT CO.				
Larguer purity 2 Fulabitic 4 Authornotive print build 2 Authornotive point white? 2 Lazquor fininer 4 List vail ename! 2 Quick dry ename! 2 Paint thinger 2 Associed point brush and roller 4 Associed point brush and roller 4 Drawer guide freavy duly 36	5.14	4" concrete nail	2	st	- 72			-8	100		
Fulantic 4 Authorrockve printer paint 2 Authorrockve lop cost paint "whise" 2 Lacquer fininer 4 Flat vall enamel 2 Paint bitiner 2 Paint bitiner 2 Assorbed point brush and roller 4 Assorbed point brush and roller 4 Drawer guide freavy duly 36	5.16	Lacquer pully	2	la			- 10	-3			- 19
Automotive primer paint white* 2 Automotive top coal paint white* 4 Eacquer thinner 4 Flat wall ename! 2 Bank thinner 2 Paint thinner 2 Assorbed paint brush and roller 4 Ourwer guide heavy duly 36	5.16	Fulatito	4					9			
Automotive top cost paint 'vintee' 4 Lacquer thinner 5 Fist vialt ename! 2 Paint thinner 7 Assorbed paint brush and roller 6 Drawer guide heavy duty 36	5.17	Automotive primer paint	2	je.							
Lacquer thinner	5.16	Automotive top cost paint "white"	~	al							
Fist wall ename! 2 Ouck dry ename! 2 Paint thinner 2 Assorted paint brush and roller 4 Drawer guide heavy duty 36	5.15	Lacquer thinner	4	755			<		8		
Quick dry ename) 2 Paint thriner 2 Assorted paint brush and roller 4 Drawer guide heavy duly 36	5.21	Flat wall ename!	2	an la			20 <u>-</u>				
Paint thinner 2 Assorted paint brush and roller 4 Drawer guide heavy duly 36	5.21	Quick dry enamel	rvi	98			576				
Assorbed paint brush and roller Orawer guide heavy duty 36	5.25	Paint thinner	27	TES							
Drawer guide heavy duly 36	5.23	Assorted paint brush and roller	**	20	- 10	- 12	- 30				
	5.24	Drawer guide heavy duly	38	at							

					-						
0.70	Outpex convenience builet Panasonic	0 4	198 Bell								
2 27			500		557						
2.00	_		ed 1					3			
976		-	DE .		ž,						
5.29	-	9	bcs		- 74						
5.30	1 5mm/2 PVC tocknut and bushing	0)	pcs	-				- 62			
5.31	1 Lacquerflow	4	gal								
9	Repair of concrete walls										
6.3	Portland cement	2	bags								
62	While sand	1/2	cu.m								
6.3	Sahara waterproofing compound	4	pouch								
6.4		-	to.								
	Supply and installation of built-in shelves/cabinets (2 sets)					C					
7.1	(0.50m x 2.50m x (++) 5.00m) Built-in laboratory shelves/cabinets with analok alumium door frame w/ 6mm thk clear disas with lookset lesso blan.	2	a de la composição de l								
œ											
8.1		2	set .								
6	Supply and installation of wooden open shelves (2 sets)						10				
69		:	bos								
9.2	1,2" x 1" x 8" S4S K.D Edging	18	pcs								
E. 2		4	bcs								
40		7	kg	1.0		 9	20	- 22			
61 10	Glazing putly	-	lag	- 34	- 50	-0		- 0			
60	Fulatite	-	4								
9.7		-	lag								
8.6	Quick dry enamel	2	gal								
6.6		-	kg								
9.10	_	7	E								
9.1	_	m	bcs					1			
2	Supply and installation of floor tiles										
10.1	(0.60m x 0.60m) Granile floor liles beige	140	bcs			28.				76	
10.2	Keady In the adnesive	n 5	B. 1		7.15						
10.4		_	Son and								
÷		$^{+}$									
4.7	Columns and Deams (3 coats ratex paint)	90	E 5								
112	Celling and beams	_	E 5								
5	Supply and installation of new laboratory tables with	_									
4								-			
12.1	(130m x 2.40m x 1.00m) Laboratory counter table (Same design in neutron laboratory)	<u></u>	set								
12.2	2 Stainless steel sink w/strainer (9" depth)	-	set			1880					
12.3	3 Stainless steel p-trap	+	bc bc		- 72		-0.7	- 3			
12.4	4 Stainless steel flexible hose	-	bc		- 22		- 3	- 0			
12.5	5 Angle valve przzi	-	pc					- 9			
12.8	12.8 Goose type faucet big "pozzi"	-	H								

£	Supply and installation of new laboratory tables (LAB-CT)	-	ş				S				
	COMFORT ROOMS		1000				335	1010	200		
-	Provision of shower area and shower fixture (Male and Female) including new sewer line P-trap and waterline										
1	Removal of existing floor tiles and fixture	-	to								
1.2	(0.60m x 0.60m) Non skid floor tiles	10	bcs								
1.3	Concrete lopping w/ slope to drain	2	m.ps								
4.4	ABC Tile arthresive	2	bags				×				
1.5	De-clogging of sewer line	-	lot	70 70 70		8					
1.6	6" x 6" stainless steel floor drain	3	bcs	21 30	2500		2550	2.000			
17		2	set								
1.8		2	set								
4.9	Soap holder stainless skeel	2	prz			2 8					
1.10	1.10 Towel bar stainless steel	2	pcs								
1,11	Stainless stock rack (2 layer)	2	pcs				8	č.			
1.12		2	prs	n-							
1.13	PVC Cement	7.	프		5.000			1,000			27554
134	Chipping of concrete flooring and excavation for P-trap installation	÷	듈								
1.15	PPR Water line pipes and filting	ŧ	Ig		**						
	Sub-total										
0	UPGRADING OF BMRS		Ī								
Ť	Repair of ceiling office & Mol. Bio Lab		-								
1.5	6mm x 4" x 8" Hardiffex Concrete Board	4	bcs		3		- 2				
12	Painting of New Concrete Board ceiling with surface preparation	ń.	S.								
£.	Provision of Wall Opening for Aircon in Wicro Lab										
14	Chipping and Concrete plastering ang painting	+	tol				3			80	
2	Provision of emergency shower area at the Mol. Bio Lab and counter sink within new Waterline & Sewerline Provision										
2.1	Emergency Shower stainless steel with eyewash (Same as existing)	(- ×	set			52 5					
2.2	Shows Endosure, Analok Aluminum Frame with 1/4 thickness, Acrylic Glass Wall & Door Frosted Finish	+	to								
2.3	Concrete topping with floor tiles	-	₫	0							
24	Provision of new Waterline & Sewertine for emergency shower including restoration	-	ō								
2.5			set								
2.6	Provision of new Waterline & Sewerline for Counter including chipping and restoration works	+	to 0								
	Sub-total										
ш	UPGRADING OF CRS										
	CRS Platen Press Room in Radioecology Bidg.						25,0				

Rehabilization of existing concrete table with sink ang Install owner supply new stainless counter elink including 1 Iol Waterline & Seweritine and restoration works and disposal of debrits.	RBA Laboratory 1	Installation of roof canopy on west side windows of RBA Lab. 1 (Facing Radioecology Bidg.)	(0.80 x (±) 2.00) Half tuss Steel Canopy with prepainted rib. 3 set type roding with tushing 8 s/2" thick Focin Board Solings:	(0.60 x 1.00). Half-truss Steel Cancoy with propainted nb-type 1 set roofing with fushing 8 1/2" thick Foem Board Skilings	installation of PVIC drain pines on existing window type Aircon notuding ohipping works and restoration	RENOVATION OF CHEMISTRY BASEMENT ROOM	Repair of Acoustic Board Celling Including Metal T Runners and repair of concrete walls	(0.60m x 0.60m) White Acoustic Board "Armstrong" Same as 120 pcs existing	White Metal T. Runner & hangers 5 pcs	Supply and repair of floor tiles	(0.60m x 0.60m) Granite Tiles Beige 60 pcs	ARC Tile cement 9 bags	Roady Fix adhosive 3 gal		1	Removal of floor tiles and chipping of concrete topping 60 pcs	RENOVATION OF RBA LABORATORY 2 Supply/repair of Floem Board Celling and repainting of	-	+	NENCYALION OF LAS (Elemen otto) age NOOH)	Analok Fix Aluminum Partition (Wall (1/4" thick Glass) 7.8 sq.m.	duty with	Renovation/Lipgrading of HPLC Room - Radiation Processing Laboratory	Supply of Vibration proof table (See plan)	2" x 4" x 1 Brmn x 20" Slainlesss steet lubular pipe "Minorized" 3 pcs	2" x 2" x 1.6 mm x 20" Stainless steel tubular pipe "Minorized" 8 pcs	Stainless steel welding rod 3 kg	(0.90m x 0.50m x 0.40m) wooden cabinet pain ext fineth with an alkk aluminum sliding door cabinet with complete accessories
	- 3										ž.	-		- 3														

I disposal 1 disposal	Rehabilitation of existing concrete table with sink ang install owner supply new stainless counter sink including of determine & Severitine and restoration works and disposal of determine of concrete sink including of determine or not can opy on west side windows of RBA Lab. 1 (Tabling Radioecology Bidg.) (a) 60 x (±) 2.00; Half truss Steel Canopy with prepainted rib-type roofing with flushing & 1/2" thick Form Board Skings (a) 60 x 1.00; Half-truss Steel Canopy with prepainted hib-type incoming with flushing & 1/2" thick Form Board Skings (b) 60 x 1.00; Half-truss Steel Canopy with prepainted hib-type incoming with flushing & 1/2" thick Form Board Skings (b) 60 x 1.00; Half-truss Steel Canopy with prepainted hib-type incoming with flushing & 1/2" thick Form Board Skings (c) 60 x 1.00; Half-truss Steel Canopy with prepainted incoming with flushing & 1/2" thick Form Board Skings Repair of Acoustic Board Caling including Metal T Runners and repair of floor titles (c) 60 m x 0.60 m) Viville Acoustic Board Caling and repair of floor titles (c) 60 m x 0.60 m) Viville Acoustic Board Caling and repair of floor titles Repair of floor titles and dhipping of concrete topping Repair of Concrete Walls Resoluting of Concrete Walls Resoluting of Concrete Walls Repolytingair of Floor Board Caling and repainting of Tomeror Profession Repair of Sink drinksewage line, Provide new PVC Pipes 4 kittings & testing Repair of Sink drinksewage line, Provide new PVC Pipes 5 kittings & testing Report of Post Sinkers steel tubular pipe "Mirrotized" 8 kittings & testing Renovation/Libgrading of HPLC Room - Radiotion Processing Laboratory Supply of Vibration proof table (See plan) 2" x 2" x 1.6 mm x 20" Stainess steel tubular pipe "Mirrotized" 8 Stainless shell welding roof rather stained pained finish with 9 and the processing Laboratory 8 Stainless shell welding roof rather stained pained finish with 9 and the processing Laboratory 9 and the processing Laboratory 9 and the processing Laboratory 9 and the pro																															
	Rehabilitation of existing concrete table with sink ang install owner suppty new stainless counter sink including of debris Webrine & Sewerither and restoration works and disposal of debris RBA Laboratory 1 Installation of roof canopy and sext side windows of RBA Lab. 1 (Facing Radioecology Bidg.) (0.60 x 1.00) Haif thus Steel Canopy with prepainted rib-type roofing with flushing & 1/2" hick Focin Board Skings (0.60 x 1.00) Haif thus Steel Canopy with propainted nb-type roofing with flushing & 1/2" hick Focin Board Skings (0.60 x 1.00) Haif thus Steel Canopy with propainted nb-type roofing with flushing & 1/2" hick Focin Board Skings (0.60 x 1.00) Haif thus Steel Canopy with propainted nb-type roofing with flushing & 1/2" hick Focin Board Skings RENOVATION OF CHEMISTRY BASEMENT ROOM RENOVATION OF CHEMISTRY BASEMENT ROOM Repair of Acoustic Board Calling including Metal T Runners and repair of Goncrete walks (0.60 m x 0.60 m) White Acoustic Board "Amistrong" Same as existing of Concrete Walks (0.60 m x 0.60 m) Grantie Ties Beige 60 Respiriting of Concrete Walls & Columns Rodal Fix adhesive Repair of Sink drainservage line, Provide new PVC Pipes 7 Repaired of Sink drainservage line, Provide new PVC Pipes 7 Repaired of Sink drainservage line, Provide new PVC Pipes 7 Repaired of Sink drainservage line, Provide new PVC Ribes 8 Renovation Installation of partition with siding door Analok Kirkluminum Partition Natl (14" thick Glass) Renovation Installation of partition with siding door Analok Kirkluminum Partition Natl (14" thick Glass) Renovation Installation of partition with siding door Analok Kirkluminum Partition Natl (14" thick Glass) Renovation Installation of partition with siding door Analok Kirkluminum Partition Natl (14" thick Glass) Renovation Installation of partition with siding door Partition Natl (14" thick Glass) Renovation Installation of partition with siding door Partition Natl (14" thick Glass) Renovation Installation of partition with siding door Partition Natl (14" thic	lot			100	agt	<u> </u>			830	sod		bcs	kings	bags	gal		Ed.m.	pcs		lot	jo jo			urbs	set			prs	bos	kg	set
Rehabilistion of existing concrete table with sink ang install owner supply new stallness counter sink including (Materine & Sewerline and restoration works and disposal (Materine) (Sewerline and response) (9.60 x (±) 2.00) Half-tuss Steel Canopy with propainted rib- 1, (Facing Radioecology Bidg), 1,27 hick Form Board Skings (9.60 x (±) 2.00) Half-tuss Steel Canopy with propainted rib- 1,00 half-tuss Steel Calling landing Metal T 1,00 half-tuss and repair of concrete walls 1,00 half-tuss and repair of concrete walls 1,00 half-tuss of Co		-	T		m	-	-			120	1		09			8					-	-				-			ca	100	62	m
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Rehabilitation of existing concrete table with sink ang Install owner supply new stainless countre sink including Watcrine & Sewerline and restoration works and disposal of debris	RBA Laboratory 1	Installation of roof canopy on west side windows of RBA Lab. 1 (Facing Radioecology Bidg.)	(0.60 x (±) 2.00) Half truss Steel Canopy with prepainted rib- type roofing with flushing 8.1(2" thick Foom Board Sidnigs	(0.60 x 1.00) Half-tuss Steel Cancey with preparited rib-type roofing with fushing 8 1/2" thick Floam Board Sidings	Installation of PVC drain pipes on existing window type. Aircon moluding chipping works and restoration	RENOVATION OF CHEMISTRY BASEMENT ROOM	Repair of Acoustic Board Celling Including Metal T Runners and repair of concrete walls	(0.60m) White Acoustic Board "Armstrong" Same as	While Metal T. Runner & hangers	Supply and repair of floor tiles		ABC Tile cement	Portland coment	Roady Fix adhesive	Repainting of Concrete Walls		2710	RENOVATION OF RBA LABORATORY 2	Supply/repair of Ficem Board Celling and repainting of whole celling	Repair of Sink drain/sewage line, Provide new PVC Pipes & fiftings & feeting	RENOVATION OF CRS (Chemical Storage Room)	Supply and Installation of partition with sliding door		Analok Silding. Aluminum Door (1.00 x 2.10m) heavy duty with locksel	Renovation/Upgrading of HPLC Room - Radiation Processing Laboratory	Supply of Vibration proof table (See plan)	2" x 4" x 1 6mm x 20' Stainless steel tubular pipe "Minorized"		Stainless steel welding rod	(0.90m x 0.50m x 0.40m) waaden cabinel painted finish with analok alumnum sidno door cabinet with comolete

en	Supply and installation of two(2) emergency shower and eyewash stations									
3.1		2	set						5000	
3.2	Non-skid Floor ties w/ concrete topping	9	800							
3.3	Concrete Zocalo w rebar 12mm Ø	-	lot						-/3	
3.4	6" x 6" Stainless Steel Floor drain	23	bcs							
3.5	ABC Tile Cement	9	pags							
3.6	Portland Cement	4	pags							
3.7	Ready Fix adhesive	1	gal							
4	SEWERLINE									
1.4	3" Ø x 10' S-1000 PVC Pipes	4	bcs .						35	
4.2	Assorbed 3" Ø PVC Frttings	9	bcs		0000	2150			oloin	
4.3	PVC Cement	ļ	ii ii	-00			- 6		72	
ç	WATERLINE									
5.1	1/2" Ø x 10' PPR Pipe	ю	900							
5.2	Assorted PPR Fittings	9	bcs							
5.3	1/2" Ø PPR Gate Valve	÷	pcs							
5.4	Concrete Culling of Rapting	20	m							
5.5	Jackhammer w Compressor (Rental)	1	lot					-	8	
5.8	Epoxy floor paint restoration	-	DC DC						æ	
69	Concrete Wall restoration and painting	1	lal		2000	36453			653	
5.10	Cleaning/disposal of concrete debris	-	lol		- 32	438			- 33	
5.12	Concrete floor restoration including epoxy painting	+	lot							
ю	Supply and installment of Acrylic Radiation Warning Sign			no.						
6.1	Radiation Working Signage (See plan)	-	20.							
	UPGRADING OF HPRS (Pantry)								575	
7	Removal of Ceiling Type Aircon		lot						- 55	
65					-23	7.5			15	
9.1	(0.60m x 0.60m) Acoustic Board White "Armstrong" Same as existing	30	риз			30				
8.2	White Metal T. Runner	-	pc bc			-8				
8.3	Repair of Hanging Cabinet & repainting	-	lot lot							
රා	Upgrading of Concrete Table w/ Kitchen Sink									
2.6	(0.60m x 0.60m) White Granite Tiles	0)	bcs							
8.2	Stainless Steel Sink (9" depth) w Strainer	-	881							
9.3		-	lot							
9.4	Goose Type Faucet "Pozzi"	-	set .							
9.5	-	61	800			-263				
9.6	Angle Valve	2	sad		7	- 6	- 22.		76	
97		-	26							
8.6 8.6	Epoxy Sealant A&B	2	24							

66	Ready Fix adhesive	-	180				-	
9.10		m	geq					
9.11	1 Portland Cement	2	geq			33-	×5	
9.12		ea.	ST.					
9.13	3 Stainless Steel Handle	9	sud					
9.14	1 Drawer Guide	2	sct					
9.15	Concealed hinges	100	SS .					
9.18	5 Z"x4"x10'34SK.D	m	Sod					
9.17	Painting (inside & outside)	-	Þ					
9.18	8 1"x2"x10 S4S Edging	9	8					
9.19	Removal of tiles and chipping of concrete topping	-	lot					
9.20	0 Miscellaneous	-	lot					
₽	PROVISION OF REINFORCED CONCRETE TABLE WITH STAINLESS STEEL SINK TILED FINISH (TABLE 1)							
10.1	_	0.64	cum					
10.2	12mm/d x 6 00m del bar	12	80					
10.3	10mmØ x 8.00m def.bar	60	SOC		22 3			
10.4	4 GA16GIwin	2	kg					
10.5	5 S" thk CHB	68	brs					
10.6	6 Plastering	7	m bs			e		
10.7	Repainting of concrete walls (3 coats)	3.6	E SS			GP (S	2012	
10.8	8 1/2 thk ordinary plywood	2	bcs		- 60		21	
10.9	9 Assorted coco lumber	2	H.Dd					
10.10	0 Stainless steel sink w strainer (9" depth)	-	30t					
10.11		-	æ					
10.12	2 Stainless Steel Flexible Hose	2	SS					
10.13	3 Angle Valve	2	Sod					
10 14	10.14 Gale valve	-	aet					
10.15	5 Epoxy A and B	-	esi .		-5			
10.16	6 Staintess Steel P-trap	-	-				8:18	
10.17	10.17 (0.60m x 0.60m) White Granite Tiles	28	prs	50			- 20	
10.18	8 ABC Tile adhesive	9	stea					
10.15	10.19 Portland Comont	9						
10.2(15	-		3.50	+		
10.21	11 Chipping/driling of concrete walls and floor	-	to la					
10.22		-	2					
Ξ	PROVISION OF REINFORCED CONCRETE TABLE TILED FINISH (TABLE 2)							
111		0.48	CIL.M					
11.2	2 12mmØ x 6.00m def bar	00	sod				2	
113	3 10mmØ x 8 00m def bar	9	brs					
11.4	4 G.A.16.G.Iwne	-	kg		Č.	٤		
11.5	5 5"thkCHB	98	bcs					
11.5	5 Plaebaring	9	E					
117	Repainting of concrete walls (3 costs)	2.4	84.m					
1.8	8 1./2 thk ordinary plywood	-	20		-			

		H					
on !		-	Dat.ft				
11.1	(u.com x u.com) write Granite lines	1	830				Ī
1111	ABC Tile adhesive	4	page special s				
11.12	Portland Cement	2	Rags	2000	(45)-	85.23	
11.13	Aluminum tile trim	8	sad .				
11.14	Chipping/drilling of concrete walls and floor	-	T T	- 0		- 83	
11.15	C.W nat	-	9				
4	PROVISION OF REINFORCED CONCRETE TABLE WITH STAINLESS STEEL SINK TILED FINISH (TABLE 3)						
12.1	Concrete	0.48	מוש				
12.2	12mm/3 x 5.00m def.bar	æ	pts				
12.3	10mmØ x 6.00m def.bar	9	500				
12.4	G.A.16 G.I wire	-	D)		5		
12.5	5"thk CHB	8	800				
12.8	Plastering	6	urbs .				
12.7	Repainting of concrete walls (3 costs)	3.6	wite				
12.8	1/2 lhk ordinary plywood	N	80.			0	
12.9	Assorted coco lumber	48	Upq			3	
12.10	12 10 Stainbas steel sink w strainer (9" depth)	21	les les				
12.11	Goose type faucet big "pozzi"	2	les				
12.12	12.12 Stainless Steel Flexible Hose	4	sad				
12.13	Angle Valve	4	sad				
12.14	Gats valve	-	set			38	
12.15	Epoxy A and B	-	- Li		27.05		
12.16	Stainless Steel P-frap	2	96			***	
12.17			800				
12.18		т	pags .				
12.19	Portland Cement	-	Dec :				
12.20	12.20 Aluminum file frim	ω	504				
12.21	Chipping/drilling of concrete walls and floor	-	DT.				
12.22	C.W.nail	-	2				
12.23	3.4" x 4" x 8" Marine Plywood	ca.	pts				
12.24		2	SIG.				
12.25		2	52				
12.26		9	250				
12.27	Stainless steel handle	12	500				
12.28	Drawer guide	2	TE TE				
12.29	Concealed hinges	100	500				
12.30	Magnetic lock	4	500				
12.31		-	27				
12.32		-	lot			9	
5	PROVISION OF REINFORCED CONCRETE TABLE TILED FINISH (TABLE 4.8.5)						
13.1	Concrete	0.60	cum				
13.2		12	500			175	
13.3	1	9	28				
13.4	-	2	5				
13.5	50 th CHB		+				
		-	-				

-						-		
13.7	Prastering Revalution of concrete usits (3 mate)	o u	odrill odrill					
13.9	1.2 thk ordinary plywood		500					
13.9	(0.60m x 0.60m) While Granile Tiles	22	SIG.			. S.		
13, 10	13.10 ABC Tile adhesive	9	sõeq				*	
13.11	Portland Cement	4	pag pag				0.000	
13.12	Auminum tile tim	10	894				- 33	
13.13	Chipping/drilling of concrete walls and floor	-	lot					
13.14	C.W nell	-	2					
13.15	3.4" x 4' x 8' Marine Plywood	¥	DC .					
13.18	1/2" x 1" x 12" S4S K.D Edging	7	pts					
13.17	Finishing nail	-	Ma District Control of the Control o					
13.16	2" x 3" x 12' S4S K.D Tanguile	-4	Sad.					
13.19	Stainless stock handle	00	530	55		3		
13 20	Concealed hinges	16	sod s			***		
13.21	Magnetic lock	œ	Sid Sid	- 60	.00			
13.22	Stikwel glue	+	27					
13.23	Painting (semi-duco inside and outside)	-	16					
	Sub-total							
g	REPAIR OF THREE (3) NATA LABORATORIES IN ARC BUILDGING (BASEMENT)							
್								
Ξ	1"x 1"x 3/16"x 20 annular bar	0,	500					T
12	cultinatiemocal of existing tusted angular bar of canal	-						
13	removal/disposal of Concode ton covers of canal	-						
-	3/16" x 4" x 8" Plain Sheel Plate	60	pcs					
1.5	Oxygen & Acetylene Gas	2	Set Set					
1.6	Grinding and Cutting Disc	00	500					
1.7	Welding rod	2	SÚN .					
1.8	(0.60m x 0.60m) Grantle floor tiles: Beige	250	503					
1.9	Ready Fix adhesive	17	IEG.					
1.10	ABC Tile Cement		bags .					
11	Portland Cement		BBQ3					
1.12	ABC Grout	=	Digital Control of the Control of th			- 30		
113	Cleaning and de-clogging of canal	-	lot					T
1.14	Epoxy Enamel Paint	2	S.Th.					
1.15	Epoxy Thinner	-	25.					
1.16	Paint brush & roller	en	pcs					
7	Upgrading of existing Laboratory Table							Ī
2.1	2"x4"x12 S48 K.D Tanguile	m	524					
22	3.4" thick x 4" x 8" Marine Plywood	-	90			1		
2.3	Stainless Steel handle	10	200					
2.4	Concealed Hinges	12	904					
2.5	Magnetic Locks	9	500					
2.6	(0.60m x 0.60m) Granile floor files while	30	800					
2.7	ABC Tile Cement	9	spea			2.5		
2.8	Portland Cement	9	8883				200	
2.9	Ready Fix adhesive	ca	120	- 60 - 70 - 70	.// 6			
2.10	2 10 ABC Grout 4	4	kgs					

100 miles (100 miles (,			_	_	_		_			
Gones Tone faired "Bio" Dozzi	4 0	3 3	0		.03						
Staintess Rexibe Hose	4	+									
	4	+									
Stainloss P-trap	2	1									
Repair/Replace existing Waterline & Severtine	-	to								C.	
Painting works (wood & concrete)	-	lot									
Solignum wood preservative	-	¥	345)								
	7)	1/2 cu.m									
Removal of tiles and chipping of concrete topping including doors and jamb		- Io									
Removal of existing equipments			S					2		ž.	
Removal / haufing of equipment (Heavy) including rental of uthercent		10 Io	27-7/		32 - W					6. — 11	
Repainting of Walls & Celling (3 coats) including concrete columns & beams	crete										
Concrete Walls and Ceiling including columns & beams costs) latex paint	360	E bs									
Installation of Cable Tray Enclosure	110-5	cts	6.5								
1"x 2" Wetal Furring	32	2 pcs								-88	
1"x1"Wal Angle	10	o bos								= ;	
6mm x 2.4m x 1.20m Hardflex board	7	sod .									
Tox w/ screw	120	o bos									
Aluminum Blind rivets	m										
Painting (3 coats)	15	ag.m									
	2	≝	·>	× 1							
Assorted sand paper	2	E		20.		8		3		Y	
Repairlupgrading of existing Center Table	lss3		arti		22.0	5000			200		
Removal of all existing tiles, wooden cabiners onlipping and cleaning	nd 1	ō									
(0.60m x 0.60m) Granile white tiles	24	4 pcs								60	
Ready Fix adhesive	1	gal	=:								
	Ĭ.	1/2 cum									
ABC Tile Cement Portland Cement	4 0	sped sped									
		+								500	
oterniess onix orienter 34" thick x 4" x 8" Manne Plywood		1 2	-600	-		813				8000	
Stainless Steel handle	20	-			=3:						
Drawer guide	12										
Concealed hinges	16	16 pcs									
Magnetic lock	4										
	2	\$:—:								
1/2"x1"x12 S4SKD	14	4 pcs									
	-	- Kg									
2" x 4' x 12' S4S K.D	9	bcs		50.				8.		A:	
Fin. Nail & Conc. Nail	6	kg	550.5	9000	6,76		9000				
	1	F	-3:		- 30.		- 3				
Rehabilizate Existing Waterline & Sewertine Pipes & Ittings Including restoration works	1 28	₫	- i								
Goose Type faucet Including Hose, Valve etc.	2	set									
Miscelaneous	÷	Int									

~	Fabrication and installation of wooden hanging cabinet												
7.5	3,4" x 4" x 8" Ordinary plywood	m	88										
7.2	1/2" x 1" x 12' S4S K.D Edging	00	So										
7.3	Staintess steel handle	4	sod		- 21	200		39		- 5	- 50		
7.4	Concealed hinges	œ	prs			- 7			- 12	- 2			
7.5	Magnetic lock	2	bcs										
7.6	Assid. Fin. Nail and concrete nail	2	Ď,							ic 3			
7.7	Stickel Glue	112	9										
7.8	Painting semi-duco finish (3 costs)	-	to 0							0.			
00	Installation of concrete partition wall with aluminum glass door and jamb			2. 0									
63	Chipping of concrete flooring and drilling works for rebar embedding	-	lo							- //			
8.2	6" Ordinary CHB	200	Sod		-51	- 12.			-				
8.3	12mmØ x 6 00m def bar	2	prs							- 3			
8.4	Portland Cement	33	stieq						3				
8.5	White sand	9	CU.M										
99	G.I.Wire	÷	kg				7.		j	2.			
8.7	(0.90 x 2.10m) Analok aluminum door and jamb wi heavy duty inside door obser and lockset wi handle	-	set		8					6 25			
100 000	Painting w/ surface preparation	30	m.ps										
	Sub-total												
I	UPGRADING OF NSSSL (GROUND FLOOR)												
	COMFORT ROOM					-1	7		10	79			
÷	Supply and repainting of ceiling												
-	Ceiling (3 toals)	7.5	m.ps										
N	Supply and replacement of loose granite floor and wall tiles												
2.1	(0.60m x 0.60m) Granite bles non-skid	30	bcs		60-						0.0		
22	(0.60m x 0.60m) Crantle bles beige	en	bcs					4.00					oles:
2.3	Chipping and removal of existing ties	-	<u>to</u>										
2.4	Concrete topping	7.5	BQ.F										
2.5		-	186										
2.6	-		paga										
2.7		2	pags										
m	Supply and repair of water drainage and fixtures in shower area												
3.1	Telephone shower "Pozzi"	+	sel										
3.2	Lavatory faucet (KASCH MODEL F01096) glossy	-	set										
33	Stainless flexible hose	2	prs										
4.	Stainless P-trap	-	S.							ů,			
3.5		2	pcs										
19	_	-	8										
3		-	8							1			
E3.	De-clogging of sewer line	-	to										
(5) (7)	Supply, remove and replace of glass window to concrete wall w/ plastered tiled finish mistle and painted outside	-	절										
		1					-						

100	Г		-									
4 44	Supply and repair of plumbing piping of C.R. Assorted times and filters and accessories of lixtures.	-	ž								600	
										3—3	3 10	
က	Supply and replacement of damaged acoustic board											
10 10	(0.60m x 0.60m) White Acoustic Board "Armstrong" Same as existing	9	pc									
9	Supply, remove and replace of glass window to concrete wall wi plastered tiled finish inside and painted outside											
6.1	5" CHB wi 10mm@ rebars @0.60m O.C B.W wi smooth cement painted thish on both face wi Inhal beam	8.7	8 E									
6.2	Chipping/temoval and disposal of aluminum glass windows and restoration of remaining analok aluminum fixed windows	S # 8	₫									
7												
7.1		52	BCS									
7.2		$^{+}$	leg.									
7.4	3 ASC IIIe cement 4 Portland Common	n 0	page page								25	
1.5		1	8							7		
7.6	6 Cleaning and disposal of concrete debris	+	₫	3	20-1			100 100			.80 - 80	
œ	Supply and installation of cabinets with tiled table top finish (work station) w/ hanging cabinets along glass window side											
	HANGING CABINETS									9-3		
69.7	2"x3"x10'S4SK.D Tanguile	es	bcs			~					0 1	
8.2		m	20								St. 1	
83		9	prs		<u>- 46 - </u>						233	
₩ 8		20	bcs				20	33			20.	
40 e	5 3.44" x 4" x 9" Ordinary plywood	9 5	brs prs							-50	-3-	
8.7		-	2									Ī
00	1	- 2	? E			4						
80 09	9 Fulatte	-	£									
8.10		2	w									
2. 5. 1. 5. 5.	11 Automotive Top cost paint 2 ODE Paint		8 8								1011001	
8.13	1	-	leg.								3 >	
8.14		-	leg				9 30					
8.15	16 Paint thinner	+	leg								()	
8.16	16 Lacquer purity	2	E			-						
8.17	7 Magnetic lock	9	bcs									
8 18		2	TB.									
8.19	-	m	set		×							
8.20		e	tos									
8.21	-	-	8									
8.22	-	- ,	5 3									
0.23	co cripping and resonation of condrete wall		5 8						3		33	
7.0		÷	3								38	

5	Conservate Author Allen Entitle military							
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60		9	_	3/1				Ī
			+	22		220	000	T
61		on .	-	013		155		
9.4		2	kg	EN EN				
9,5	12mm x 1.2m x 2.44m phenolic plywood	~	bc	DC DC				
9.6	Coco lumber	32	Dd.ft	dit				
63	Fin. Nall & Conc. Nall	es	Ø	Di di				
8,8	(0.50m x 0.50m) Grantle ties (Marble dealgn)	56	80	80.				
0.8	(0.60m x 0.60m) Grantle tiles beige	80	-	80				
9.10	0 3.4" x 4" x 8" Ordinary plywood	2		800				
9.11		00	-	300			2	Γ
9.12		-3	-	530				Γ
9.13		60	1	500				
9.14	4 Concealed hinges	16		202				
8.15		-	lag	print and a second a second and		Y -		
9.16		4		200				
9.17		-	k	Dy				
9,18	_	-	-					
9.19	9 Lacquer purty	2	×					
9.20		N						
8.21		-		160				Γ
9.22		-	-	180				
9.23		-	+	88				Ī
76.6		0	+					
9.35		1	+	34		3.71		Ī
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975		2	_					T
9.27		4	-	site and a second secon				
9.28		00	pags	Süe			- 20	Î
9.29	9 White sand	-	E 70	La Caracteria de la Car			41	
9.30	0 s"thkCHB	9	90	800				
9.31	1 Lacquer thinner	-	TEG.	let's				
9.32		1/2	-	let a series and a				
우	Supply and installation of kitchen sink with cabinets and hanging cabinets	_						
	HANGING CABINETS							
10.1	1 2"x3"x8'54S K.D Tangule	2	bcs	920		5		
10.2		m	-	85				
10.3	3 1/2"x1"x12"S4SK.D Edging	9	800	900				
10.4	4 Assorted fin. And concrete nall	2	Ø.	District Control of the Control of t				
10.5	5 Stainless steel handle	S	bcs	800		- 513		
10.6	6 Concealed Ninges	0,	-	500	5 - 5 - 5			
10.7	7 Střevel Glue	1/2	kg					
10.8	8 Magnetic lack	63	prz	510				
10.9	9 Assorted sand paper	-	Ε					
10.10	10.10 Fulable	1/2	ĸ					
10.11	1 Automotive primer paint	-	ы			51	49	
10.12	10.12 Automotive top cost paint	2	300					
10.13	10.13 Q.D.E.Paint	-	¥	- Sec				

11.2 Hetc. 11.2 Independent 11.2 Indepen					
1,2					
"twhres "the seconds" 1 1 1 1 1 1 1 1 1					
'rkhires 1 ence outle: Tanasonic* 1 pipes, boxes etc. 1 raviration of concrete wall 1 riskure) 1 riskure) 0.23 noekomed bar 3 andic plywood 16 m deformed bar 4 8 Conc. Nall 2 Ocranite lies (Marbie design) 12 Connier lies (Marbie design) 12 Connier lies (Marbie design) 12					
1 pipes, boxes etc. 1 1 1 1 1 1 1 1 1					
pipes, boxes etc. 1 1 1 1 1 1 1 1 1					
etc. Increte wall					
Increte wall 1 ION DOOR 0.23 af 1 If 2 Additional design 1 (Namble design 1 (Reige) 4					
ION DOOR 0.23 Sif 3 In 1 In					
ION DOOR 023 ar 3 1 1 1 1 1 Namble design) 12 (Balge) 4					
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ar 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
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ar 4 4 24 24 224 (Marbie desgn) 12 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6					
ar 24 (Marbie desgn) 12 (Belge) 4					
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(Marble design) 12 (Belge) 4				4:	
(Beige) 4		2			
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-					
2"x3"x12"S4S K.D Tangulle 2 pcs					
Stainless Steel handle 4 pcs					
Concealed hinges 8 pcs					
Magnetic Lock 2 pcs					
Stifkwel Glue 1/2 kg					
Fullable 1/2 IR	X .		V.	3.	
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Top Coat Paint 2					
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Brush & Roller Paint 2 pcs					
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ABC Tile adhesive 3 bags Portland Cement 4 bans			- ct		
White Sand 12 cum					
2 -					
and					
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2					
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- I					
& fittings					

		-						1							r
1.39	1/2" Ø PPR Gale Valve	+	od.												-
11.40	3" Ø S 1000 PVC Pipes & fittings	-	lot												_
11.41	PVC Coment	12	栏				4								_
11.42	Latex Paint	1	- 1		85135				2236				000		_
11.23	(2.70m x 1.85m) Nama Wood Finish Accordion door wit complete accessories & lockset (heavy duty)	4	sel												
12	Supply and installation of Sewerline for kitchen sink and ACU					D. 100	<u>.</u>	4 — 40	(0 4		
12.1	Chipping of Conc. Floor & wall & restoration	+	lot					- 2							_
12.2	1/2" Ø x 10" PVC Pipes & Ittings	-	lot												-
5	Installation of Steel Door w/ Viewing Glass @ Main Training Room & Instrumentation Room														
13.1	(#0.85m x 2 10m) GA 16 Steel Door & Jamb wi 1/4* thick Clear Viewing Glass, epoxy painted, fine insulation inside, Stainless Steel hinges & lockset.	-	89¢												
13.2	Heave duty Door Closer "Yale"	m	set										_		_
13.3	Removaldisposal of Auminum/Glass Door	m	set				0								-
13.4	(0.85m x 2.10m) G.R.16 Steel Door & Jamb, epoxy painted, fine insulation haide, Staintess Steel hinges & lockset	24	set		v			0	3J						
13.5	Plastering and painting works	3	set		-35			-3:		10					-
	Sub-total									- 10					
-	UPGRADING OF ITS														
	CIVIL WORKS						-								
-	Removal of exteting aluminum panel walls	-	10t				, y	5	5						
61	Supply and installation of Sandwich panel doors (2.1 x 0.9m) will accessories	rs.	set												
ю	Replacement of 5cm sandwich panel wall	130	sq.m						5770						_
۳	Installation of coving	215	III		5000		e213	5000	502	(FSC			- 22		_
c)	Concrete wall breaking for service bay door and pass box at condor including rental of breaker.	Į.	tot												
-	Sub-total				70										
- 70	Rehabilitation of isotope Laboratory and Adjacent Structures (NROS)														
*	Refurbishment of Isotope Isboratory (Reactor Building, ARC Basement, East Wing)	6			3			×							
2	-installation of stamless steel sink single bow, 25° X 20° X 10" dccp	-	lot												
1.2	installation of stainless shed goose neck type faucel (Delta brand or equivalent)	+	lot				g6	V6							-
£.	-installistion of water and drain lines (1" © PPR PN10 pipe and fittings), stainless steel (gate valve,P-trap and fittings assembly).	7	lot			s 23	6 - 10							s	2. D
4	-installation of lavatory work bench top, phenotic resin, 3.6 m X, 54 m	e	sols	- 0.	- 10								88		-
+	-fearcration of sable and work bench cabinets, 3.5 m X 0.64 m X 850 m using 3.4" marine plywood and 3" X 3" S45 kin dry lumber	-	lal												
7	Renovation of two (2) tollets (Reactor Building, ARC Basement, East Wing)	2					SC.	vo.	0	2		-		8	
2.1	-Remove floor, wall and cubicles files and clean floors with disinfecting bleach	-	lot												-
2.2	-Clean floors and walls with disinfectant bleach	2	sins												_
2.3	-Demolished wood cubicles at female tellet	-	lot lot			==		===							_

serits series se
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
8 2 0 2 2 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8
entry 50 cm. **Signature of water fines(1's PETR PN10 pp. and fines(2) state (1) or installation of water fines(1's PETR PN10 pp. and fines(2) state (2) or installation of water threat(3) cubices, as famile binlet and adoth height for male black; 3 cm. or installation of water or inter(3) cubices, as famile binlet and adoth height for male black; 10 km state feater with an adoth height for male black; 2 cm or

vo.	Others												
15	Rental of tools and equipment	15 11		66—73		2 .5			8 8		× =		
5.1.1	 ladder 'and other necessary hand-power tools, fusing machine and oquipment 	-	19										
52	Consumables	- 24			- 0								
522	-consumables (sandisaper steel brush, paint brush, rags, cement, sand, tile adheshe, wood edging, wood glue, wood nails, concode nails, tic-wires, etc.)	-	iot			33					~	19	
5.3	Demobilization			-									
5.3.1	-clean-up	·	lot										
5.3.2	- transport of debris, tools and equipment	-	lot										
	Sub-total												
	TOTAL (CIVIL WORKS)				8 3	. 3						10 00	
	ELECTRICAL WORKS												
	General ARC Building												
· - :	Replacement of existing ground floor hallway pinlight fixtures as indicated in the electrical layout.		7 1000										
77	Pinight fixtures, 8 inch E27 with 12W LED Bulb	8	sels			9	20						
12	Miscellanecus (provision of support for the pinlight fixtures)	-	75										
	Sub-total 1												
2	Replacement of existing second floor hallway pinlight flxtures as indicated in the electrical layout.												
2.1	Pinlight fixtures, 8 inch E27 with 12W LED Bulb	35	N N		5.1	***							- 55
22	Miscellanecus (provision of support for the pinlight fixtures)	+	lot										
	Sub-total 2												

100	Conversion of the existing aircon outlet to fumehood supply line as indicated in the electrical layout. (ground floor)			
жi	Enclosed Circuit Breaker (ECB) with 30A, 2P, 240V, 22 KAIC CB, Bott-on type	-	te e	
8.2		2	pos.	
8.3	15 mmß RSC locknut and bushing	m	pcs.	
8.4	15 mmß RSC abow	7	pcs.	
8.5	4" Ø octagonal box with cover	-	8	
8.6	Miscellaneous (pipe clamps, acrews)	-	± d	
o	Supply and installation of two (2) unit enclosed circuit breakers (ECB) with supply lines for aircons, (basement), and one to 10 unit ECB to expinement at an ground floor laboratory as indicated in the electrical layout			
ds U	ECB with 50A, 2P, 240V, 22 KAIC, Bolt-on type CB (sou)	-	set	
9.2		-	set	
on on	Endosed Circuit Breaker (ECB) with 30A, 2P, 240V, 22 KAIC CB, Bott-on type (to be terminated in Panelboard PE, ground floor)	-	set	
9.4	15 ming RSC pipe with coupling	20	S.	
9. 2.5	15 mmp RSC locimut and bushing	58	<u>8</u>	
9	4" Ø octagonal box with cover		Si Si	
7.9		-	lot	
\$	Tracing of electrical distribution circuits (Ground floor and Basement).	-	<u>a</u>	
	Sup-total			
	Nuclear Analytical Techniques Applications Section			
Ŧ	Supply and installation of Panciboard DPA.3 and feederlines located at the right wing electrical room, basement as indicated in the electrical layout.			
Ē		- E	to o	
11.2	30mm² THHN/THWN cable (3 colors)	174	E	
11.3	14mm² THHN/THWN cable	82	E	
11.4	50 mm@ RSC pipe with coupling	-		
11.5	50 mm@ 85C tocknut and bushing. Ground rod, 5,8% with ground wire and heavy duty clemp	4 -	ot ot	
72	Supply and installations of distribution circuits which include convenience outlets, enclosed circuit breakers for aircons, condult pipe, where, toxes and other electrical materials required for its completeness and as indicated in the electrical ayout[absement].			
121	Endosed Circuit Breaker (ECB) with 30A, 2P, 240V, 22 KAIC CB, Bott-on type	en	sels	
12.2	15 mmp RSC pipe with coupling	48	ej.	
12.3	15 mm@ RSC lockrut and bushing	24	pos.	
12.4	2"x4" utitly box, metallic	9	pca.	
12.5	4" Ø octagonal box with cover	12	pcs.	
12.6	Duplex Convenience outlets with ground and cover	vo.	sels	
12.7		-	sel	Ī
12.8	Single pole switch, wide sories, Panasonic (for ceiling exhaust fan)	-	g	
12.9	Floor mounted duplex convenience outlet	2	sets	

0.000								
12.10	3.5mm* THHN/THWN wire (150m/holl)	-	lo					
12.11	2.0mm* THHN/THWN wire (Green)	0	E					
12.12	Miscellaneous (RSC clamps and supports)	-	e					
	Sub-total						3	
	Blomed Research Section (BMRS)							
12	Supply and installation of floor mounted convenience outlets and aircon outlet as indicated in the electrical burner.							k l
13.1	4 11/16 x 4 11/16 square box with cover	***	pos.					
13.2	15 mm@ RSC pipe with coupling	21	pca.					
13.3	15 mm@ RSC lockout and bushing	23	pos.					
13.4	15 mm@ RSC elbow	N	pos.					
13.5	4" Ø octagonal box with cover	9	pos.				- 2	
13.6	Floor mounted duplex convenience outlet	2	sets					
13.7	5.5mm² THHN/THWN wire	40	Е					
13.8	2.0mm² THHN/THWN wire (Green)	50	E					
13.9	Miscellaneous (chipping and restoration of concrete stab, pipe clamps, support, U-bots, screws)	-	tol					
4	circuits (Biomed Office	-	lol					
	Sub-total							
	Chemistry Research Section (CRS)							
ā	Provision of Step-up transformer (1x400V/3P), convenience outlets for the twin extruder equipment at the Platen Press Room							
19.1	240400V, 3P, 14KVA, 60Hz, +N-PE Step up transformer	-	set					
15.2	14mm² THHN/THWN cable (3 colors)	138	Е		,			
15.3	5.5mm² THHN/THWN wire (green)	94	E					
15.4	25mmd RSC pipe with coupling	9	pcs					
15.5	25mmØ lacknut and bushing	_	pcs	80		2		
15.6	Pullbox (200mmx200mmx150mm) pre-painted with cover	n	sets	6-5				
15.7	Panelboard PPPR (Platen Press Room) with 734, 3P, 240V, 25 KAIC and branches circuit breakers: 1 set 604, 3F, 240V, 22 KAIC Belton type CB, 2 sets 204, 2P, 240V, 22 KAIC Belton type CB.	-	lot					
15.8	Panelboaro DPAR (Abchine Room, Basement) wtb 2004, 3P, 2404, 2B (Add. can's brancher croful breakers: 1st 1754, 3P, 2407, 25 KAC, notated type CB, 2 sets 50A, 3P, 240Y, 25 KAC, set 100A, 3P, 240Y, 25 KAC, set 100A, 3P, 240Y, 25 KAC industrial Type CB		19					
	Sub-total 1			000			S = S	
16	Supply and installation of emergency lights at the RBA 1 Lab.							
16.1	Automatic Emergency Light, 2 x 3W High Power SMT LED. Battery: 12x, 9.0Ah, Sealed Lead Acid	ın	Bets					
16.2	Single convenience outlet, single with ground and cover	2	sets					
16.3	2"x4" utility box, metallic	s.	pcs.					
16.4	15 mmß RSC pipe with coupling	~	pca.					
16.5	15 mm@ RSC locknut and bushing.	-	P89.					
16.6	3.5mm* THHN/THWN wire	28	E					
16.7	2.0mm² THHMTHWN wire (Green)	52	E					
4	Supply and installation of Timer controller for 4 units ACUS, RBA 1 Lab.	-						
17.1	Timer Switch, Camsco model TB-370	+	3) as					
17.2	Magnetic contactors, with NO and NC contacts	**	sets					
17.3	wetsi encogure with cover and pre-panted, 250mmx250mmx150mm	24	Bets					

rete wall. 1 lot	e RBA 1 nain lobby.	112 m	П	7 pcs.	+	4 909.	Out total of	that the CER 1554, ER 1904.	MCCB, 22 KNC, Belt Bott-on type, 6	64	en e	x150mm 2 sets	m 1	oclave and	ICV, 22 KAIC 1 set	7 pos.	5 pcs.	-	7	W	E E 03		r, heavy duty 1 set	-	- 0	1 00	энр	ICV, 22 KAIC 1 set	5 pcs	4 pcs	30 ш	15 m	Sub-total 3	er, exhaust one set i fumehood	40V, 22 KAIC 1 set	4 pos.	6 pos.
17.4 Miscellaneous (chipping and restoration of concrete wall, screws, wires and wires terminal).	19 Supply and Installation of LAN circuit from the RBA 1 LCM5M5 Room to Server Room at the ARC main lobby					18.9 4" to octagonal box with cover, FVC	10.0 SUITBON MOUNTED UTILITY DOX	Supply and installation of new Panelboard PCL, at the 15 Central Lab and to be connected to the existing ECB 1254, 3P, 240 Main CB, as indicated in the electrical its yout.	Panelboard PCL, with 1284, 3F, 240Y, 22 KAIC MICCB. Branches circuit breakers, 2 sets 40A, 3P, 240Y, 22 KNIC, Boit on type 68. 9 sets 30A, 72 120V, 22 KAIC CB, Boit on type 18 sets 20A, 2P, 2AVIC, CB, Boil on type.		\neg	19.4 Pulltox pre-painted with cover, 300mmx300mmx150mm 19.5 38mm ² THHNTHWN cable	-	Supply and installation of supply line for autoclave and supply line for exhaust fan as indicated in the electrical layout.	20.1 Enclosed Circuit Breaker (ECB) with 404, 3P, 240V, 22 KAIC	20.2 25 mmß RSC gipe with coupling		-		20.5 8mm*THHWTHWN cable	20.8 3.5mm ² THEN/THWN wire (SKEEN)	-	20:10 Exhaust Fan, 16 Inch , wall mounted with shutter, heavy duty		20.12 Single convenience butlet with ground and cover			21.1 Enclosed Circuit Breaker (ECB) with 30A, 2P, 240V, 22 KAIC CB, Both-on type	21.2 15 mm8 RSC pipe with coupling	21.3 15 mmß RSC locknut and bushing	21.4 5 5mm THHN/THWN wire	21.5 2 0mm ² THHN/THWN wire (Green)		Refocution of existing enclosed circuit breaker, exhaust 22 Isan switch. Iighting switch and installation of one set weatherproof convenience outlet for detacless tumehood at the Chemical Storage Room, second floor	22.1 Enclosed Circuit Breaker (ECB) with 20A, 2P, 240V, 22 KAIG CB, Bott-on type	1	22.3 4" Ø octagonal box with onver

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							5,6													-9						- 10							
						200																		100						3			
pca.	pos.	set		set	bcs.	pcs	E	E	pcs.	lot					to to	rolls	roll	poa.	pos.	sots	pcs.)	pcs	X	S 1	ned of	sel	20 Se	2 3	10			tol	sets
\vdash	9	-	9	-	2 P	4	14	7	2 p	-						2 13	-	21 P	-	12 8		-	+	-		M -		+			8	-	en en
	201)	utet	al supply line for 1.0 Hp it breaker at the FTRI layout.	30A, 2P, 240V, 22 KAIG	-					rcults (Chemistry	Sub-total 4	Sub-total	action Lab. (NSSSL)	Panelboard, feederlines lude two sets ceiling outlets, ecb and other completeness.	V, 22 KAIC Main Circuit minals and branches /, 22 KAIC CB, Boll-on B. Bolt-on type	1					100	400		0				+	144	SUD-total	and P400E at the too on circuits which toes outlets, fluorescent circuit breaker, rical materials as	only) with ground His: 1 set 50A, 2P, 240V W CB, Bolt-on type, 5	1 with louver, with 18W
15 mmß RSC pipe with coupling	15 mm@ RSC locknut and bushing	Weatherproof Duplex convenience cuttet	Supply and installation of electrical supply line for 1.0 Hp split type ACU with enclosed circuit breaker at the FTRI Room as indicated in the electrical layout.	Endosed Circuit Breaker (ECB) with 30A, 2P, 240V, 22 KAIG CB. Boli-contuse	15 mm@ RSC gipe with coupling	15 mmß RSC loderut and bushing	5 Smm ² THHNTHWN wire	2 Omin ² THHN/THWN wire (Green)	4" Ø octagonal box with cover	Tracing of electrical distribution circuits (Chemistry Laboratory and Offices).			Nuclear Sateguard and Security Section Lab. (NSSSL)	Supply and installation of NSSSL Panciboard, feederlines and distribution circuits which include two sets ceiling dayshasts lans, condult pipes, Wires, outlets, ecb and other electrical materials required for its completeness.	Pameknand PCL -2 with 50A, 3P, 24.0V, 22 KAIC. Main Creati Breaker, 802-ch 1yes with ground terminals and branches circuit breakers. 2 sets 20A, 3P, 240V, 22 KAIC CB, Boll-on type, 1 set 30A, 2P, 240V, 22 KAIC CB, Boll-on	8mm² THHN/THWN cable (150m/roll)	3.5mm² THHN/THWN wire (150m/roll, green)	25 mm@ RSC pipe with coupling	25 mm@ RSC locknut and bushing	Duplex convenience outlets with cover	2"xd" utility box, metallic	15 mmØRSC pipe with coupling	15 mmp RSC lockmut and bushing	 Ø octagional box with cover Enclosed Circuit Breaker (ECB) with 30A, 2P, 240V, 22 KAIC 	CB, Balt-on type	Celling mounted exhaust fan, 12 inches Taes cann exilith wide exercise Panacouir	Surface mounted utility box	Tracing of electrical circuits (NSSL Outlets, acu outlets	and lightings)?	Nuclear Reactor Operations Section (NROS)	Supply and installation of Panelboard P100E at the Mechanical Room and all distribution circuits which includes water heaters, conveniences outlets, fluorescent finance, condits, wiser, enclosed circuit breaker, pullboxes and other required electrical materials as incleated in the ol	Panstboard P100E (Tornina Locks only) with ground ferminals and branches croult breakers. 1 set 504, 2P, 240Y CB, Bott-on typo, 9 sets 30A, 2P, 240V CB, Rotk-on typo, 5 sets 20A, 2P, 240V CB, Bott on type.	Fluorescent fixtures, single mimorized with louver, with 18W LED T8 Tube.
	22.5 12	22.6 W	20 25 25	23.1	23.2 18	23.3 15	23.4 5	23.5 2)	23.6 4"	24 Tr			Z	25	25.1	25.2 Br	25.3 3.	25.4 23	25.5 23	25.6 DI		_	_		-	25 13 17		_	8	2	% 2 5 5 6 6 6	7.1.72 F. F. D. 98	27.2

2.0 mm² I HHIVI HWIV wire (Black Color) 2.0 mm² I HHIVI HWIV were (Green Color) 1.0 mm8 RSC bies with coupling 1.0 mm8 RSC bies RS
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KAIC. For the strong of the RPK thatures.

38.44	1. Chancitop box with cover Pluc	8	8		-	
28.43			2	Dog Control of the Co		
	_		2	5		T
35.13	3 Z.0 mm* THHN/THWN wre (Green Color)	28	Ε	E		
35.14	4 Cat 6 UTP Cable	150	Ε	E		î
35.15	5 Miscellanecus (pipe supports/hangers)	-	to	lot		-0
88	Supply and installation of distribution circuits, lighting fixtures, convenience outlets, switches, and other related materials or devices required as indicated in the electrical plan.					
36.1	1 5.5 mm ² THHN/THWN wire (Black Color) 150 motoritoll	-	2	100		
36.2		-	2	E		
36.3		36	Ε	E		Γ
36.4		27	908	908		
36.5	5 15 mmg RSC locknut and bushing	61	sets	Siber		Ī
36.6		9	8	838		
36.7		23	8	603		
36.8		œ	88	100		200
38.9		-	se			
36 10		-	sct	261		
88.11	1 Huorescent Fixtures, Single, LED. 18W 15	00	sets	5989		
36.12		2	sets	\$100		
36 13		9	afts	mits		
86.14	4 Miscellaneous (pipe supports/hangers)	-	₫	101		
33	Tracing of all existing power circults including those existing floating circuits without power coated at the adjacent electrical room. The traced floating circuits will be forminated to the new PPAAA panelboard inside the electrical room					
37.1		ক	ō	10		
	Sub-total					
8	Submission of As-Bullt Drawings for the tracing of electrical distribution circuits and smoke detectors ofrcuits					
38.1	1 As-Built Drawings	-	ō	lot lot		
	Sub-total					
	TOTAL (ELECTRICAL WORKS)					
	MECHANICAL WORKS					
+	Applied Physics Research Section (APRS)					
	ARC Basement				20.	6 X
2	Supply and healaston of 6.0 hp air conditioner, split type. floor- mounted, inverter, digital with remote control, at APRS Gamma Laboratory		R	Sel		
5	Supply and installation of 4.0 hp air conditioner, split type, ceiling-mounted, inverter, at APRS Neutron Laboratory	~	3	lase la	2	
53	Removal of existing 2 TR (~2.5 hp) air conditioner, spilt type, floor mounted at APRS Neutran Laboratory	20	₫	To .		
	ARC Ground Floor				SE 03	19 - 17
4	Removal of existing ceiling-mounted air conditioner at APRS laboratorios	S-20	ā			
	Sub-total					

Informer, splitt type, and Processing series Laboratory split type, wall-conditioner, split type, swall-conditioner, split type, swall-conditioner, split type, swall-conditioner, split type, wall-conditioner, split type, wall-serior Laboratory showing and series Room series Room series Room series Room series Room series (split type, wall-series Laboratory series type, wall-conditioner, split															- 0											
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2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Chemistry Research Section (CRS)	ARC Basement				Removal of existing 1.0 TR (~ 1.0 hp) air conditioner, split type, wall-mounted, at Chemistry Office/Storage Room	ARC Ground Floor, Central Laboratory		ARC Ground Floor, Radioccology Building		ARC Second Floor							Sub-total	Nuclear Safeguard and Security Section Lab. (NSSSL)			Sub-total	Nuclear Reactor Operations Section (NROS)			
	2		2.1	2.2	2.3	2.4		25		2.6		2.7	2.8	2.9	2.10	2.11	2.11.1		60	3.1	32		4	1.1	4.2	6.4

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.,	ns Secti	ner, splitt	rer, splil I	ner, spilt t	an, celling over at N			ner, windo	an, celling over at	an, ceiling over at	0,		onmenta	nor ,splif t ure Area tivily Mor	ner, spilit Ironmenti //	ditioning	0,		grading	HEPA	n Zinc pla et AC blo ochy: 0.30 v efficien ledia: Mic
	pplicatio	condition atory, AF	condition story, AF	condition 5 Laboral	exmanst for		WRS)	condition at Microb	exhaust for	achaust fe nd vent c		(HPRS)	condition ary, Envir	condition 8, Expos Radioac	condition rom, Envi	d air con			Room Up	Unit with	Aluminus, 1 si veit, 1, sir veit, 1, SS, SSS, 1, Filter M.
	Ilques A	LO hp air 45 Labor	3.0 hp air VS Labor	LO hp air at NATA8	150 cfm e Ø duct an		ction (B)	2.0 hp air control,	loo cfm e Ø duct ar	150 cfm o Ø duct an		Section	2.5 hp air Laborate nvilab)	1.0 hp air ation Are amental	2.0 hp air iment Ro iboratory	-mounte d'Floor		Ion (ITS)	, Clean	an Filter	60 mm, or DC m ,200 cm EPA 1lte x 59 mm
		P TAT	ion of 2 et NATA	ation of 4 nverter, 8	ation of 1 e with 4" - Basemen		arch So	ation of 2 h remole	ation of 1	ation of 1 e with 4"		Research	lation of 2 at Main toring (E	ation of 1 , at Radk n , Erwird	ation of 2 , at instru- itoring La	C Ground		ues Sect	rtical Kit	ation of F	x 575 x 2 tile phase tume: < 1 tupleat H
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	Analytical Techi	nd installation inverter, at h	rd installa Inverter,	nd Installs Jurited, ir t	nd hetal 12° gril y, ARC		sal Re	od he fejtal	12°	12°1		184	inversion of the first	nd ing	ny produced in the produced in	of ex		echn	ırma	E 9	n: 117 Hz sir , air.v H13 n 82e: 1
	Nuclear Analytical Techniques Applications Section (NATAS)	Supply and installation of 10 hp air conditioner, split lyse, wall mounted, inverter, at NATAS Laboratory, ARC Basement	Supply and installation of 3.0 hp air conditioner, split type, mounted, inverter, at NATAS Laboratory, ARC Basement	Supply and hatalisticn of 4.0 hp sit conditioner, split type, celing-mounted, inverter, at NATAS Laboratory, ARC Basement	Supply and histalisticn of 150 cm exhaust fan, ceiling- mounted, 12' grille with 4'' Ø duct and vent cover at NATAS Laboratory, ARC Basement		Blomedical Research Section (BMRS)	Supply and installation of 2.0 to air conditioner, window type, inverter, digital with remote control, at Mirrobiology Room	Supply and installation of 100 cfm exchaust fan, ceiling- mounted, 12' grille with 4" Ø duct and vent cover at pantry	Supply and installation of 150 cfm cohaust fan, colling- mounted, 12° grills with 4° Ø duct and vent cover at Microbiology Room		Health Physics Research Section (HPRS)	Supply and metallisticn of 2.5 hp air conditioner, split type, wall- mounted, inverter, at Main Laboratory, Environmental Radioactivity, Monitoring (Envilab)	Supply and installation of 1.0 hp air conditioner, split byte, wall mounted, invelter, at Radazon Area, Exposure Area and Aquacuture Room. Environmental Radicactivity Monitoring Laboratory (Environ).	Supply and installation of 2.0 hp air conditioner, split type, wall mounted, inverter, at instrument Room, Environmental Radioactivity, Monitoring Laboratory (Envilab);	Renewal of existing ceiling-mounted air conditioning unit at HPRS panty, ARC Ground Floor		Isotope Techniques Section (ITS)	Radiopharmaceutical Kit, Clean Room Upgrading	Supply and Installation of Fan Fitter Unit with HEPA titlers	Dimension: 1175 x 575 x 380 mm, Aluminum Zinc piùse frame, 220V / 50 hz single phase or DC motor, 1 set AC blower (400V 44th, air volume: < 1,200 cmh, air velocity; 0.30 m/s – 0.70 ms, H13 min-pleat HEPA filter; 98,99% africancy (0.03 ms, H15 min-pleat HEPA filter; 98,99% africancy (0.03 ms, H16 effect; 1170 x 570 x 59 mm; Pilter filter discussed in the filter fil

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

Class "A" Documents

Les	gal D	<u>ocuments</u>
	(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	(b)	and Registration certificate from Securities and Exchange Commission (SEC) with latest General Information Sheet (GIS), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
		and
	(c)	Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
	(d)	and Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR)
Tot	chnic	al Documents
	(e)	Statement of the prospective bidder of all its ongoing government and private
		contracts, including contracts awarded but not yet, if any, whether similar or not similar in nature and complexity to the contract to be bid; and
	(f)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; and
	(g)	Philippine Contractors Accreditation Board (PCAB) License;
		<u>or</u>
		Special PCAB License in case of Joint Ventures; and registration for the type and cost of the contract to be bid; and
	(h)	Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
		<u>or</u>
		Original copy of Notarized Bid Securing Declaration; and
	(i)	Project Requirements, which shall include the following:
		☐ 1. Organizational chart for the contract to be bid;
		☐ 2. List of contractor's key personnel (<i>e.g.</i> , Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
		☐ 3. List of contractor's major equipment units, which are owned, leased,
		and/or under purchase agreements, supported by proof of ownership or
		certification of availability of equipment from the equipment lessor/vendor
	<i>(</i> :)	for the duration of the project, as the case may be; and
ш	(j)	Original duly signed Omnibus Sworn Statement (OSS);

	and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.
☐ (k)	Bid Bulletin (if applicable)
Financi	al Documents
	The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and
□ (m)	The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).
	Class "B" Documents
□ (n)	If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;
	or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.
II. FINAN	CIAL COMPONENT ENVELOPE
□ (o)	
Other de	ocumentary requirements under RA No. 9184
□ (p) □ (q)	Original of duly signed Bid Prices in the Bill of Quantities; and Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in
□ (r)	coming up with the Bid; and Cash Flow by Quarter

Bidding Forms

LIST OF ALL ONGOING CONTRACTS	86
STATEMENT OF SLCC	
BID SECURING DECLARATION	
ORGANIZATION CHART	
LIST OF CONTRACTOR'S KEY PERSONNEL	
LIST OF EQUIPMENT	93
OMNIBUS SWORN STATEMENT	94
Authority of Signatory (Secretary' Cert.)	96
Authority of Signatory (SPA)	98
NFCC	99
BID FORM	100

List of all Ongoing Government & Private Construction Contracts including contracts awarded but not yet started

Business Name :										
Name of Contract/Location	ri	Owner Name		Contractor's Role		a. Date Av	varded	% of Accomplishment		Value of
Project Cost		Address Telephone Nos.	Nature of Work	Description	%		Date Started Date of Completion	п.		Outstanding Works
Government										
<u>Private</u>										
Note: This statement shall be supported with:	portec	d with:						Total Cost	ıt.	

3 Certificate of Accomplishments signed by the owner or Project Engineer (Printed Name & Signature) 2 Notice to Proceed issued by the owner Submitted by Designation Date

1 Notice of Award and/or Contract

Statement of Single Largest Completed Contracts (SLCC) in the last five (5) years

Business Name :					
Name of Contract	a. Owner Name b. Address c. Telephone Nos.	Nature of Work	Contractor's Role Description %	a. Amount at Award b. Amount at Completion c. Duration	a. Date Awarded b. Contract Effectivity c. Date Completed
Government					
<u>Private</u>					
Note: This statement shall be supported with:	orted with:				
1 Contract					
2 CPES rating sheets and/or Certificate of Completion	ficate of Completion				
Certificate of Acceptance					
Submitted by :					
	(Printed Name & Signature)				
Designation :					
Date :					

REPUBLIC OF THE PHILIPPINES)
CITY OF) S.S.
X	X

BID-SECURING DECLARATION Project Identification No.: [Insert number]

To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration within fifteen (15) from the receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Section 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184, without prejudice to other legal action the government may undertake.
- 3. I/We understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
 - (a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - (b) I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - (c) I am/we are declared as the bidder with the Lowest Calculated and Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this_____day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Procuring Entity: PHILIPPINE NUCLEAR RESEARCH INSTITUTE

Name of the Project: Upgrading of ARC Building (CY 2022)
Location of the Project: PNRI Compound, Commonwealth Avenue, Diliman, Quezon City

Contractor's Organizational Chart for the Contract

Submit Copy of the Organizational Chart that the Contractor intends to use to execute the Contract if awarded to him. Indicate in the chart the names of the Project Manager, Project Engineer, Bridge Engineer, Structural Engineer, Materials and Quality Control Engineer, Foreman and other Key Engineering Personnel.

Attached the required Proposed Organizational Chart for the contract as stated above

Procuring Entity: PHILIPPINE NUCLEAR RESEARCH INSTITUTE

Authorized Managing Officer / Representative

Sustained Technical Employee

Name of the Project: Upgrading of ARC Building (CY 2022)
Location of the Project: PNRI Compound, Commonwealth Avenue, Diliman, Quezon City

KEY PERSONNEL (FORMAT OF BIO-DATA)

Give the detailed information of the following personnel who are scheduled to be assigned as fulltime field staff for the project. Fill up a form for each person.

1.	Name	:	,		
2.	Date of Birth	:			
3.	Nationality	:			
4.	Education and Degrees	:			
5.	Specialty	:			
6.	Registration	:			
7.	Length of Service with the Firm	:	Year from To	(months) (months)	
8.	Years of Experience	:			
9.	If Item 7 is less than ten (10) year for a ten (10)-year period (attach				us employers
	Name and Address of Employer		Length of Servey year(s) from year(s) from year(s) from	to to	
10.	Experience: This should cover the past ten (10 to show involvement of personne				as necessary
1.	Name	:			
2.	Name and Address of Owner	:			
3.	Name and Address of the Owner's Engineer (Consultant)	:			
4.	Indicate the Features of Project (particulars of the project components and any other particulars connected with the project				

5.	Contract Amount Expressed in Philippine Currency	:					
6.	Position	:					
7.	Structures for which the employee was responsible	:					
8.	Assignment Period	:	from	-	(months)		_(years)
		:	to		(months)		_(years)
It is	ne and Signature of Employee hereby certified that the above perded to our company.	rsonnel	can be a	assigned to	this project	t, if the con	tract is
		rsonnel	can be a	assigned to	this project	t, if the con	tract is
	(Place and Date)				The Authoriz	ed Represe	entative)

List of Equipment, Owned or Leased and/or under Purchase Agreements, Pledged to the Proposed Contract

Business Name Business Address

Motor No. / Location Body No.												
Plate No.												
Capacity / Performance / Size												
Model/Year												
Description	A. Owned				B. Leased				C. Under Purchase Agreements			

List of minimum equipment required for the project:

Submitted by	
•	(Printed Name & Signature)
Designation	
Date	

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. Select one, delete the other:

If a sole proprietorship: I am the sole proprietor of [Name of Bidder] with office address at [address of Bidder];

If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. Select one, delete the other:

If a sole proprietorship: As the owner and sole proprietor of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to represent it in the bidding for [Name of the Project] of the [Name of the Procuring Entity];

If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the [Name of Bidder] in the bidding as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate issued by the corporation or the members of the joint venture)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. Select one, delete the rest:

If a sole proprietorship: I am not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-

user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the enduser unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. [Name of Bidder] is aware of and has undertaken the following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Documents;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- 10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF,	I have hereunto set my hand this_	day of	, 20	_at
, Philippines				

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

AUTHORITY OF SIGNATORY

SECRETARY'S CERTIFICATE

	Ι,				, a duly el						
of	(Name o			•	on duly organiz			-		•	ue of
the la	w of the_					, DO HE	EREBY C	ERTIFY,	that:		
	I am fa	ımiliar with	the facts h	nerein ce	rtified and duly	author	ized to	certify th	ıe sar	ne;	
held c		regular me			of Directors of t a quorum was						
					same have not effect on the o			l, revoke	d and	d amer	nded
	RESOL	VED, that	(Nai	me of the	e Bidder)	be, a	as it he	reby is, a	author	rized t	Ю.
partic	ipate	in the	biddir	ng of by th			of Procuri	the ng Entit		ract) and t	hat if
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	(2)	of injuncti in connec related th	ions or prof ction with t ereto, the n	nibition o this Cont legotiatin	Name of the B r restraining or ract to preven g of and award ed contract.	der aga t and i	inst the restrain	AFP or a	ny ot ding	ther ag proced	gency dures
	WITNE	SS the	signature	of the	e undersigne _this	d as	such	officer 	of	the	said
							<u> </u>				
					(Cor	porate :	Secreta	ry)			

ACKNOWLEDGMENT

exhibited	to	me	his/her	Community	Tax	thisday of Certificate No , Philippines.		
						Notary Public Until 31 December 20 PTR No Issued at: Issued on:		
Doc. No. Page No. Book No. Series of						TIN No		

AUTHORITY OF SIGNATORY

SPECIAL POWER OF ATTORNEY

I.	, President of , a
corporation incorporated under the laws of	, President of, awith its, by virtue of Board, has made, constituted andtrue and lawful attorney, for it and its name,
registered office at	, by virtue of Board
Resolution Nodated	, has made, constituted and
appointed	true and lawful attorney, for it and its name, rm any and all acts necessary and/or represent
	in the bidding of as fully and effectively as corporation might do if
personally present with full power of substitution representative shall lawfully do or cause to be of	on and revocation and hereby confirming all that said
IN WITNESS WHEREOF, I have h	hereunto set may hand this day of
Signed in the Presence of:	
ACKNOV	VLEDGMENT
REPUBLIC OF THE PHILIPPINES) QUEZON CITY)SS.	
BEFORE ME, a Notary Public for and, 20, personally appe	in Quezon City, Philippines, thisday of eared:
NAME CTC NO	O. ISSUED AT/ON
of() pages, including the page	on who executed the foregoing instrument consisting whereon the acknowledgments is written and s free and voluntary act and deed and that of the
WITNESS MY HAND AND NOTARIAL SE	AL, at the place and on the date first above written.
	Notary Public
	Until 31 December 20
	PTR No
	Issued at:
	Issued on:
	TIN No
Doc. No	
Page No	
Book No	
Series of	

Procuring Entity: PHILIPPINE NUCLEAR RESEARCH INSTITUTE

Name of the Project: Upgrading of ARC Building (CY 2022)

Location of the Project: PNRI Compound, Commonwealth Avenue, Diliman, Quezon City

FINANCIAL DOCUMENTS FOR ELIGIBILITY CHECK

A Summary of the Applicant Firm's/Contractor's assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

		Year 20
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Total Net Worth (1-3)	
6.	Current Net Worth or Net Working Capital (2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [Current Asset - Current Liabilities] (15) minus value of all outstanding works or uncompleted portions of the project under ongoing contracts including, awarded contracts yet to be started coinciding with the contract to be bid.

The values of the domestic bidder's current assets and current liabilities shall be based on the latest Audited Financial Statements submitted to the BIR

Submitted by:	
Name of Firm / Contractor	
Signature of Authorized Representative Date:	

NOTE:

1. If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

Bid Form

 Date:_
 Project Identification No:

To: [name and address of PROCURING ENTITY]

Address: [insert address]

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract [insert name of contract];
- (b) We offer to execute the Works for this Contract in accordance with the PBDs;
- (c) The total price of our Bid in words and figures, excluding any discounts offered below is: [insert information];
- (d) The discounts offered and the methodology for their application are: <u>[insert information]</u>;
- (e) The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates;
- (f) Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- (g) If our Bid accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines for this purpose;
- (h) We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- (i) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- (j) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- (k) We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- (I) We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name:	
In the capacity of:	
Signed:	
Duly authorized to sign the Bid for and on behalf of: _	
Date:	

